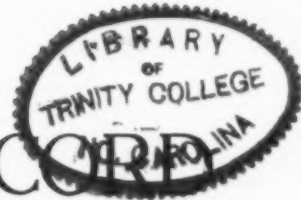


# MANUFACTURERS RECORD

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BALTIMORE, SEPTEMBER 18, 1913.

### HEDGING.

While the Congress is legislating  
against hedging on cotton, might it not  
be well to enact a law forbidding pol-  
iticians from hedging on campaign  
promises when they perceive that the  
stars in their courses are fighting  
against them?

### GOOD ROADS AND POWER MA- CHINERY INFLUENCE ON CIVILIZATION.

The man who does most to bring  
about the building of good, substantial,  
well-kept roads, good in winter as in  
summer, will do the most for the ad-  
vancement of the educational, religious  
and material interests of this country.  
Of what avails it to build country  
schoolhouses and churches if they can  
only be reached over the bottomless  
mud roads with which during the win-  
ter seasons a very large proportion of  
our entire country has been cursed? It  
is useless to talk about stopping the  
movement of people from the country  
to the city so long as the city has good  
streets and the country has muddy  
roads. Road building is of more than  
local importance.

The city is just as much interested  
in the building of good roads, not only  
within its own territory, but over an  
entire State, as are the country people  
themselves. The tremendous growth  
of the cities at the expense of the coun-  
try is due to a number of economic fac-  
tors. The city secured the benefit of

good streets and paved sidewalks and  
community life far in advance of the  
country, and these things have been  
powerful factors, working like magnets,  
drawing population away from the  
mud-cursed roads of the country. The  
city also secured the benefit in advance  
of the country of power machinery.

The almost boundless influence of  
power machinery in contrast with mus-  
cle power in the development of wealth  
and the betterment of conditions under  
which people can live has been another  
magnet of almost limitless strength in  
drawing population to the cities.

The gasoline engine is making pos-  
sible a revolution in farm conditions.  
On tens of thousands of farms and in  
hundreds of ways it is bringing to the  
farmer the benefit of power machinery  
in contrast with the drudgery of mus-  
cle power. The farmer is at last be-  
ginning to get the benefits, which for  
half a century or more have been con-  
fined almost exclusively to towns and  
cities, of power machinery. He may  
not fully realize what this revolution  
means in doubling and quadrupling the  
effectiveness of his work and in lessen-  
ing the burdens and the drudgery of  
himself and his family. We are only  
at the beginning of this age of power  
machinery on the farm. The field for  
expansion is limitless. With this in-  
crease of efficiency on the farm and the  
lessening of the drudgery of farm life  
for men, women and children it only  
needs the building of good roads every-  
where to completely change the whole  
atmosphere of farming life to the bet-  
terment of everybody.

We have only entered the threshold  
of the era of the use of the automobile,  
as a business vehicle as well as for  
pleasure. Passing through one county  
in Georgia some time ago, a county in  
which there are no large cities, but in  
which there is great agricultural pros-  
perity, the writer was told by respon-  
sible people that more than one-half of  
the farm owners in the county owned  
automobiles. In that county the farm-  
ers use their cars for carrying fruit,  
vegetables, chickens and eggs and other  
things to market, because this can be  
done over good roads. The very swift-  
ness of the movement of an automobile  
stimulates thought and activity and  
stirs the farmers to a quicker realiza-  
tion of the possibilities of development  
of diversified agriculture and other im-  
provements.

The gasoline engine operating ma-  
chinery on the farm, pumping the  
water, sawing the wood and chopping  
the feedstuffs for cattle, as it will  
eventually do, and the gasoline engine  
in the motor truck and the automobile,  
one and the same thing, is one of the  
mightiest factors of the last half-cen-  
tury for the betterment of farm life.  
This little engine will cause tens of  
thousands of boys, who would other-  
wise turn to the city, to stay in the  
country and make a success there.

The worker for good roads is, there-  
fore, a missionary, opening the way for  
the advancement of civilization and the

vast expansion of material prosperity  
everywhere.

### OPPORTUNITIES IN SOUTHERN GRAIN PRODUCTION.

If 15 States of the South were now  
raising as much wheat in proportion to  
population as was raised in that area  
before the war, the annual crop would  
be 123,000,000 bushels instead of 90,-  
000,000 or 100,000,000 bushels. If like  
proportionate production obtained as to  
corn, the crop would be 1,000,000,000 in-  
stead of 800,000,000 or 900,000,000  
bushels. The area has produced wheat  
and corn within range of such quantities,  
but such crops have been exceptional.  
Comparison of 1859 and 1909 shows  
that only five of these Southern States  
are producing more wheat than they  
produced 50 years ago, and only one of  
them more wheat per capita, and that,  
while all but two of them are raising  
more corn, not a single one is producing  
as much corn per capita. Details are  
set forth in figures in the following  
table:

States.	1860. Population.	1859 crop, bushels.		1859 crop, per capita.	
		Wheat.	Corn.	Wheat.	Corn.
Alabama	964,201	1,222,487	32,761,194	1.27	33.98
Arkansas	435,450	955,298	17,758,605	2.19	40.78
Florida	140,147	2,808	2,824,528	.02	20.15
Georgia	1,057,286	2,544,913	30,776,293	2.41	29.11
Kentucky	1,155,684	7,394,811	64,043,633	6.39	55.41
Louisiana	708,062	20,283	16,205,856	.04	22.88
Maryland	687,049	6,163,480	13,444,922	8.88	19.57
Mississippi	791,305	579,452	29,563,735	.73	38.33
Missouri	1,182,012	4,227,586	72,892,157	3.58	61.67
North Carolina	992,622	4,743,706	30,078,564	4.79	30.31
South Carolina	703,708	1,285,631	15,065,606	1.82	21.41
Tennessee	1,109,801	5,409,863	50,748,266	4.88	45.73
Texas	604,215	1,464,273	16,521,503	2.42	27.34
Virginia	1,596,318	13,129,180	38,390,704	8.22	24.63
Total	12,127,800	49,662,771	431,045,726	4.05	35.54
United States	31,443,322	171,183,381	839,451,707	5.44	26.41

States.	1910. Population.	1909 crop, bushels.		1909 crop, per capita.	
		Wheat.	Corn.	Wheat.	Corn.
Alabama	2,138,093	113,953	30,695,737	.05	14.36
Arkansas	1,574,449	526,414	37,600,544	.33	23.88
Florida	752,619	137	7,023,767	...	9.33
Georgia	2,609,121	752,858	39,374,569	.29	15.09
Kentucky	2,289,905	8,739,290	83,348,024	3.81	36.39
Louisiana	1,656,388	488	26,010,361	...	15.71
Maryland	1,295,346	9,463,457	17,911,436	7.28	13.83
Mississippi	1,797,114	4,670	28,428,667	...	15.83
Missouri	3,293,335	20,837,429	191,427,087	9.06	58.12
North Carolina	2,206,287	3,827,145	34,063,531	1.73	15.44
South Carolina	1,515,400	310,614	20,871,946	.20	13.78
Tennessee	2,184,780	6,516,539	67,682,489	2.99	30.98
Texas	3,896,542	2,560,891	75,498,635	.66	19.12
Virginia	2,061,612	8,076,989	38,295,141	3.91	18.57
West Virginia	1,224,119	2,575,906	17,119,097	2.11	14.02
Total	30,492,119	73,306,840	715,360,091	2.40	23.46
United States	91,972,266	683,379,259	2,552,189,630	7.43	27.74

Of these Southern States only Ken-  
tucky, Maryland, Missouri, Tennessee  
and Texas raised more wheat in 1909  
than in 1859, and of their total in-  
crease of 31,515,000 bushels Missouri  
alone accounted for more than 25,500,-  
000 bushels. There was a decline from  
1,222,487 to 113,953 bushels in Ala-  
bama, from 955,298 to 526,414 bushels  
in Arkansas, from 2,544,913 to 752,858  
bushels in Georgia, from 4,743,706 to  
3,827,145 bushels in North Carolina,  
from 1,285,631 to 310,614 bushels in  
South Carolina, and from 13,129,180 to  
10,652,985 bushels in the area included

reduced in area by the erection of the  
State of West Virginia, produced within  
65,000 bushels of the crop of 1859 in the  
original State. Arkansas and Florida  
more than doubled their crops, and  
Texas more than quadrupled its crop.  
The crop in the whole section increased  
from 431,045,726 bushels to 715,360,091  
bushels, or at the rate of 65.9 per cent.,  
but the increase in the rest of the coun-  
try was from 399,405,981 bushels to  
1,836,829,639 bushels, or at the rate of  
359.9 per cent. In 1859 these Southern  
States raised nearly 52 per cent. of the  
corn of the country. In 1909 their

share of the crop was only 28 per cent. The average per capita production in the section in 1859 was 35.54 bushels, against 20.68 bushels in the rest of the country. Five of the States—Arkansas, Kentucky, Mississippi, Missouri and Tennessee—produced above the average for their section. By 1909 the average per capita production for the section had fallen to 23.46 bushels, while the average for the rest of the country had risen to 29.88 bushels, and not a single one of these Southern States had a per capita production equal to that of 1859, and only Arkansas, Kentucky, Missouri and Tennessee had an average above their section's average.

It is interesting to note in this connection that the flour and grist mill industry, resting upon wheat and corn production, makes a better exhibit. Between 1860 and 1910 the capital invested in the industry in these Southern States increased from \$21,379,149 to \$72,908,000, or by \$51,528,851, equal to 241 per cent., while the increase in the rest of the country was from \$63,106,815 to \$276,244,000, or by \$213,137,185, equal to 337.7 per cent. In the meantime, though, reflecting the disappearance of the small local mill and the rise of the larger central establishment, the number of flour and grist mills in the country decreased from 13,878 to 11,691, or by 2187, the decrease in the Southern States being from 5069 to 3351, or by 1718. Only Arkansas, Kentucky, Louisiana, Missouri and Texas had a larger number of mills in 1910 than in 1860, and both in Mississippi and South Carolina there was marked decrease in the capital invested in the industry—in Mississippi from \$409,475 to \$71,000, and in South Carolina from \$699,525 to \$110,000. Of the increase of flour and grist mill capital in these Southern States \$46,000,000, or nearly 90 per cent., was in Kentucky, Missouri, Tennessee, Texas and Virginia.

This relative decline in production of corn and wheat in the Southern States was brought about primarily by the necessity following the war for concentrating agricultural energies largely upon cotton, the crop that would bring ready cash. It was intensified by the habit thus formed of living on credit with the cotton crop as the security, and especially by the utter demoralization of the negroes, constituting a large portion of the agricultural labor force in the South, a demoralization still influential and manifested in many ways as a handicap upon material progress, in spite of the remarkable advance made by the South in agriculture in the past 25 or 30 years.

But it must not be imagined that the energy diverted for divers causes from grain production has gone in its entirety into cotton growing. Unequaled seasonal conditions coinciding with large acreage have given the South a 16,000,000-bale crop of cotton, but while the per capita production of wheat and corn in the South had a marked decrease in the 50 years between 1859 and 1909, and the actual increase was only 49.5 per cent. for wheat and 67.9 per cent. for corn, the increase in the cotton crop was 142.2 per cent., from 4,157,550 bales to 10,315,382 bales of 500 pounds each, a rate of increase less than the rate of 151.4 per cent. of increase in the population.

It must be borne in mind, however, that the South is now raising 23,000,000 bushels of rice a year, five times as much as it raised 50 years ago; that its business of supplying the country yearly with \$100,000,000 worth of vegetables and fruit is practically a crea-

tion of the past half-century, and that the section has been obliged to depend almost entirely upon its natural increase in population to man not only its farms and plantations, but its manufacturing industries, its mines and its transportation activities. What that has meant is indicated in a comparison of the rate of increase in population in the Southern States mentioned and the rates of increase in the numbers employed in farming, in manufacturing and in mining in those States. Between 1900 and 1910 the population increased by 4,115,771, or at the rate of 15.6 per cent. The increase in the number of wage-earners in factories between 1900 and 1909 was 412,665, or at the rate of 49.9 per cent., the increase being equal to more than a tenth of the increase in the population. Between 1902 and 1909 the wage-earners in mines increased by 113,320, or at the rate of 95.3 per cent. Most of the workers in factories and many of those in the mines were drawn from the classes that, without such employment, would have been employed upon the farms. It is not strange, therefore, that the rate of increase in the number of operators of farms was only 13.9 per cent., or less than the rate of increase in the total population.

Though the rates of increases in the number of wage-earners in factories, of wage-earners in mining and of persons operating farms were greater in the South than in the rest of the country, the comparison here made suggests the wonderful opportunities in the South for men of all these classes. They are the kind of immigrants that the South requires, not only to displace especially in agriculture hundreds of thousands of incompetents of the race that has always been a hobble upon the best Southern development, but also to bring out the best material results potential in Southern natural resources.

#### THE INCOME TAX.

In Europe the income tax rests upon no economic theories, but upon the practical necessity, created by vast armies and navies, of taxing everything that can be found and taxing it every time it is encountered. —*New York Journal of Commerce.*

In the United States the income tax as attempted rests upon the political theory that if a democratic income tax should be levied, that is to say, a tax that would be levied upon every person having an income, the men whose votes in Congress were responsible for that phase of the tax would never have opportunity to levy another tax. Hence, the tax as formulated is a direct appeal for political support to Those Who Have Not at the expense of Those Who Have, a punishment for frugality and thrift and an encouragement of the spirit becoming more and more pronounced in the writing of a new commandment, "Thou shalt not save."

#### SOME NEWS.

Commenting on the organization in Florida of a branch of the Southern Settlement & Development Co., the Tampa Morning *Tribune* gives some news which will be news indeed to Maryland people. Referring to this organization, the *Tribune* says:

Later this idea spread in a modified form to Maryland, where S. Davies Warfield, being then Governor, took hold of the plan of co-operative development, donated \$15,000 from his own pocket and induced the State Legislature to give \$30,000 more. This money he spent right in the State of Maryland teaching newcomers how to farm and develop rich, but idle, lands.

Mr. Warfield was never Governor of Maryland. He is president of the Com-

tinental Trust Co. and chairman of the board of the Seaboard Air Line. He did not induce the State Legislature to give \$30,000, but he did induce the General Assembly of the State to pass an act in the closing hours of the session of 1912 appropriating \$20,000 to the "Southern Settlement and Development Organization" for the fiscal year ending September 30, 1913, and \$10,000 for the fiscal year ending September 30, 1914, the appropriation so made being conditioned upon "the raising by said organization through public appropriations by other States or through private subscriptions of an amount in the years 1912 and 1913 of not less than \$40,000 in each year, and the appropriations made therein shall not be paid until satisfactory evidence is produced to the Comptroller that the provisions of this section have been complied with."

The Comptroller of Maryland informs the MANUFACTURERS RECORD that there was paid to the "Southern Settlement & Development Association" on August 8, 1913, the sum of \$20,000 for the fiscal year 1913.

We are quite sure that \$30,000 of the State's money has not been spent in Maryland under the auspices of the organization in "teaching newcomers how to farm and develop rich, but idle, lands," and, if Mr. Warfield has spent \$15,000 of his own money in that direction, there has been a singular lack of publicity about it in Maryland.

We feel sure, in addition, that Mr. Warfield was not responsible for the misinformation supplied the Tampa *Tribune*.

#### A NATIONAL MARKETING PLACE FOR EVERYTHING GOOD.

An interesting illustration of the work of the MANUFACTURERS RECORD in bringing buyers and sellers into touch is found in a case which comes to us from San Francisco, where two business concerns having offices in the same building were brought into business relations through a notice in the MANUFACTURERS RECORD. Though occupying offices in the same building, and but a few hundred feet apart, it took a letter crossing the continent 3000 miles to the MANUFACTURERS RECORD, and the publication of an item of news based on that letter, to bring these two concerns into business relations.

On August 14 we received a letter from the Graves-Spears Road Machinery Co., Monadnock Building, San Francisco, stating that the company desired "to get in touch with the manufacturers of a machine which is used in Brazil for crushing coquito nuts and extracting the oil from them." Writing under date of August 26 this company says:

We appreciate very much the service you have given us in mentioning our requirements in a recent issue. We have been greatly surprised at the promptness of the manufacturers in communicating with us, as we have already had calls from several of them. One of these parties is an occupant of the same office building which we occupy.

This is but one illustration of many thousands in which publicity through the MANUFACTURERS RECORD has brought people into business relations. It may be worth repeating, as we are still sometimes asked for information on that point, that the MANUFACTURERS RECORD welcomes every inquiry from people in any part of the country, whether subscribers or not, who want to find out about machinery or supplies or other things covered by the

work of this paper. There is, of course, no charge whatever for the publication of news of this kind. It is sought in the interest of our readers. Its publication is of value to thousands who look to the MANUFACTURERS RECORD for news of this kind.

There is not an issue of the MANUFACTURERS RECORD published but what has in it news which, if wisely used, would be worth to almost any business concern in the country far more than a year's subscription. This news deals with machinery of all kinds, covering the widest range, from the building of the biggest plants to the small sawmill or cotton gin. It covers the building of railroads and the purchase of equipment for them, the construction of great office buildings, hotels, dwelling-houses, wharves and warehouses. It covers the handling of bonds, the issuing of securities of all kinds by States and municipalities. It deals with the building of roads, the paving of streets and sidewalks, with the construction of water-works and sewerage systems, and every line of material activity connected with the development of a great and mighty section. It is read by bond buyers and bond sellers, and a letter of September 13 from E. B. Blanton, manager of the bond department of the Commonwealth Trust Co. of Houston, Tex., says:

I do not see how anyone handling bonds could afford to be without your valuable journal.

It is read by manufacturers, bankers, merchants, engineers, contractors and others throughout the South and Southwest, and by almost as many in other sections who seek to know about the opportunities for doing business. It is read by contractors everywhere looking for work. It is read by men who want to get in touch with contractors. It is read by buyers of machinery and by sellers of machinery. It is read by buyers of brain work, men who want to secure the best talent and experience in every line of engineering. It is read by engineers and others who have such talent and experience who are seeking employment for them.

The MANUFACTURERS RECORD in this way has become an encyclopedia to which thousands of people weekly turn for information. Its advertising columns are as important to the buyers of machinery and equipment and supplies of all kinds, to the buyers and sellers of bonds and other securities, as an encyclopedia is to the college professor. Its news columns, especially its Construction Department and other features connected therewith, are as vitally important to business people who want to be in touch with world activities and to get their share of business as is the textbook in the university course, and for those who need this information daily we publish the *Daily Bulletin* covering constructions and financial activities.

The experience of the Graves-Spears Road Machinery Co. and of the Commonwealth Trust Co. is only in keeping with the experience of thousands of others. Some weeks ago the city of Macon, Miss., advertised through the MANUFACTURERS RECORD that it wanted to purchase some of its own light and city water-works bonds. The City Clerk writes us:

The advertisement produced the desired results, as I heard from it in a very few days.

In the same week W. T. S. Dickey of Mineral Bluff, Ga., inserted a brief advertisement that he wanted to get in immediate touch with a party with



limestone pulverizing outfit to pulverize 12,000 tons to flour fineness. A few days later he writes and says:

One insertion brought the desired results, and was entirely satisfactory.

In this work of bringing buyers and sellers together as at a great national marketing place the MANUFACTURERS RECORD is unique among all the publications of the country. The few illustrations mentioned of bringing two San Francisco firms occupying offices in the same building into touch, the finding of bonds of a Mississippi town for purchase by the town, and the finding of a concern to handle a big job of pulverizing limestone, are indicative of the truly amazing things brought about through the columns of the MANUFACTURERS RECORD.

#### MORE ROAD BUILDING IN FLORIDA.

Florida's good work in road building keeps on apace. A few weeks ago we published a dispatch from Tampa that Hillsborough county, in which Tampa is located, had overwhelmingly voted for \$1,000,000 of bonds for building 75 miles of brick highways through the county. Other counties between Hillsborough and Jacksonville have been discussing the building of similar roads with a view to making a connected highway between Jacksonville and Tampa. A dispatch from William Pannill of Sanford shows that Seminole county is actively joining in this work of highway building. Mr. Pannill wired on September 16:

Seminole County Board of Commissioners let contract today to Wilson Construction Co. of Jacksonville to pave 25 miles of county roads with vitrified brick. Approximate cost \$200,000. Brick will be furnished by Hankinson & Hagler, Augusta, Ga.

Hankinson & Hagler wire from Sanford:

Seminole county let contract today to Hankinson & Hagler of Augusta, Ga., for approximately 5,000,000 brick for the building of approximately 25 miles of brick roads. Construction work awarded to Wilson Construction Co. of Jacksonville and to Hand Bros. of Sanford. H. S. Jaudon Engineering Co. of Savannah, engineer.

A \$1,500,000 issue for roads and bridges is also proposed for Escambia county, as noted elsewhere in this issue.

It looks now as though Florida would within the next few months lead the entire South, if not the country, in the building of brick highways. Indeed, in proportion to population Florida is probably already leading the country in road building.

#### THE WORLD'S GREATEST OFFICE BUILDING.

The greatest office building which the world has yet seen is now under construction in New York. The cost, including the ground, will, it is understood, be about \$35,000,000, or possibly more. This is the new Equitable, which takes the place of the old Equitable destroyed by fire. It is to be an amazingly great structure, and the plans indicate that it will be as complete and perfect in all its appointments as it will be stupendous in size and cost.

An interesting fact in connection with this undertaking is that the men who are building it have taken up an advertising campaign unlike anything ever carried out by any office building in this country, so far as we know. They are widely advertising the building a long time before it will be completed. They are carrying in the New York daily papers, and will doubtless advertise elsewhere, a series of adver-

tisements calling attention to the magnitude of the plan and the perfection of the building when finished, with the idea of acquainting the whole world with this new office structure. It is their aim to give to the building a distinct, unique character so that every tenant will reap some of the benefit that comes from being located in a building which will be known worldwide. It is their aim to make this the central office point for railroad, financial and industrial corporations and for outside interests who maintain offices in New York, having in mind also a degree of care as to the tenants to be selected in order to secure an exceptionally select list of those who may occupy this gigantic structure.

The work that this company is doing is only another proof of the value of advertising. If men who can command \$35,000,000 or more for the erection of an office building in the very heart of New York's downtown district find it wise to spend many thousands of dollars far in advance of its completion in order to get the benefit which this advertising will bring to them, they are showing a faith in the power of the large expenditure of money as a wise investment through advertising which others might surely imitate.

#### THE BANKER'S RESPONSIBILITY TO HIS COMMUNITY.

The assistant cashier of a country bank in the South, in a letter to the MANUFACTURERS RECORD, says:

For some time I have been impressed that we should be readers of your weekly magazine or journal; that is, our bank should be a subscriber. Our cashier does not take time to read these kinds of journals, nor does he look into banking journals, but myself and one of the young men in the office try to keep posted on these matters.

Would you object to sending us a sample copy of the MANUFACTURERS RECORD that we may show it to the cashier and try to induce him to let us subscribe for it? We feel that our bank needs to know things published in it. While we have no special factories in our town which are treated of in your journal, still we should be posted on what is going on in the world of business, and especially the great South.

The writer is a young man near 35, and has been in this bank over 15 years, and the more I see of the banking business, a man connected with a bank should be a broad-minded man and strive to know a good deal about a goodly number of other men's business and their methods of doing business.

This assistant cashier shows that he understands some of the necessities of the banking business. He recognizes the importance of a banker's knowing something more about business conditions than merely the routine lending of money if he would keep banking on the broad plane which it is entitled to occupy. Too many bankers in the South and elsewhere are content to know nothing about the broad business activities of the whole South, entirely satisfied to lend money at the highest rate of interest they can get and to collect notes promptly.

By virtue of his position a banker holds a position of very great responsibility to his community. He largely helps to shape and mold the thought of the people around him, especially the younger generation. The bankers of every small community in the South or elsewhere can build up in their vicinities a sentiment for sound and safe and honest business methods. They can be leaders in every good work in molding the people of their section and in leading them to broad activities in the development of the agricultural and industrial possibilities of the country. No banker can do this successfully unless he is himself a man of character,

whose example can be emulated to advantage; unless he is a man in touch with humanity, willing to give of his time and knowledge and ability for the betterment of the conditions of his community for advancing every interest, for stimulating young men to the highest achievements, for encouraging farmers to diversify their products and to handle their business in an intelligent and businesslike way. And no other man in the community, except, perchance, it be the minister of the Gospel, has a greater power for influence for good or evil than the banker.

#### A PUZZLE IN TARIFF REVISION.

The *Florida Times-Union* argues that as the Democratic party was put in power because it promised to reduce the cost of living, "It will soon be put out, and should be put out, if it does not." But our Jacksonville contemporary, expressing belief that neither Senator Williams of Mississippi nor Representative Underwood of Alabama ever said that tariff reduction will not lower the cost of living, says:

The cost of living of which the people complain is the cost of meat, flour, butter, eggs and other articles of diet. Tariff reduction will not cause any material decline in the prices of these commodities, and that is probably what Senator Williams and Representative Underwood said. It is what Democratic leaders should say to prepare the people for the disappointment they will naturally feel when they find these commodities as high under a Democratic as a Republican tariff. It is what the *Times-Union* has always said, and it would have been much better if Democratic leaders had said it before the election than now.

But there are a number of commodities of whose prices the people do not complain, because for these commodities they have never known anything but high prices. The most important of these is clothing, which, on account of the tariff, costs about twice as much here as in Europe. The tariff on textiles and on clothing has about been cut in half. A suit selling for \$30 here would sell for only about \$16 abroad, and under the Democratic tariff will sell for about \$24. The American people will save from 10 to 20 per cent. on their clothing alone. Clothing is cheaper now than it has been for years because merchants and manufacturers are trying to get rid of their stocks in preparation for the lower prices that are coming.

All kinds of manufactured commodities will be cheaper under the new tariff than they have been heretofore, but we see no reason why agricultural products should decline in value.

About the most positive statement on this subject made by a Democratic leader since the tariff bill was introduced in Congress last April was that of Representative Underwood. On April 23, in presenting the bill to the committee of the whole House, he said:

So far as the people were concerned, the main reason why a revision of the customs laws was both demanded and expected was because of the increased cost of living since the enactment of the Dingley bill in 1897. During that period I find from statistics that the value of farm products had increased 93 per cent.; food, 47 per cent.; clothing, 36 per cent.; metals and implements, 48 per cent.; drugs and chemicals, 24 per cent.; house furnishing goods, 24 per cent., and all commodities covered by the present law have increased on an average 47 per cent.

I do not contend, nor would it be fair to say, that this increase in values is wholly due to the tariff. In some cases it is and in others it is not. But it is safe to say that a large portion of the increased cost of living to the American citizen has grown directly out of the system of taxation levied to protect the great manufacturing interests of the country. \* \* \* Although we have reduced the tariff in the interest of the consumer in this bill, it would be untrue to say that the effect of this reduction is going to be immediate. There are many reasons why we cannot promise this to the people, but there is one which is quite sufficient. Under all the laws of trade supply and demand must regulate prices. The re-

tail merchants of the country have fixed their prices today on goods now on their shelves, which were bought under conditions fixed by Republican legislation. They will not reduce their prices until they are compelled to do so, nor will they begin to reduce the price to the consumer until competition from fellow-merchants forces them to do so. That competition will naturally not arise until the merchant has disposed of the goods on his shelves, which he purchased under conditions of a high Republican tariff.

But I do fully believe that within a reasonable time, when present stocks of goods are sold out, the American people will receive a real reduction in the cost of living if this bill is enacted into law.

While this apologia sought to emphasize the possibility of a decline in the cost of manufactured goods, it did cite the increase of 93 per cent. in the value of farm products and of 47 per cent. in the value of food. It is, therefore, to be regretted that the possibilities as to the effect of tariff revision upon such products were not elaborated, for in the discussion of the increase in the cost of living, the cost of food, such as meat, flour, butter and eggs, all originating upon the farm, had been specially stressed, and there had been rather a widespread and deep-seated impression among people not accustomed to indulge in political metaphysics and convinced that the tariff was responsible for the high cost of living that tariff revision as promised in the political campaign would reduce the cost of food. That impression, current for many months last year, is likely to be deepened by the discovery in the free list of the pending tariff bill of such farm products and food as buckwheat and buckwheat flour; corn or maize; cornmeal; eggs of poultry; fruits or berries, green, ripe or dried, and fruits in brine, not specially provided for in this section; fresh beef, veal, mutton, lamb and pork; bacon and hams; meats of all kinds, prepared or preserved, not specially provided for in this section; milk and cream; potatoes, and potatoes dried, desiccated or otherwise prepared, not specially provided for in this section; rye and rye flour; swine, cattle, sheep and all other domestic animals suitable for human food not otherwise provided for in this section; wheat, wheat flour, semolina and other wheat products.

Provisional limitation upon free importation is contemplated in the case of two or three of the products mentioned. But the masses of the people who share Mr. Underwood's knowledge that the price of farm products and food has contributed to the high cost of living will naturally want to know, in accordance with long cultivated notions about the relation of the tariff to the cost of living, why such articles are upon the free list of a revised tariff unless the price of such articles is to become lower. And if lower, will not the farmer who produces them suffer? Such an inquiry will be quite logical, but its answer does not appear in the argument of the *Florida Times-Union*, which seems to think that tariff revision will bring about a reduction of the cost of living in particulars about which the people do not complain without reducing the cost of living in particulars about which the people do complain.

The proceedings of the seventeenth annual session of the Interstate Cottonseed Crushers' Association, held last June at Chicago, have been published in pamphlet form. The president of the association is Mr. N. E. Singleton of the National Stockyards, Illinois, and the secretary and treasurer is Robert Gibson of Dallas, Tex.

## Notes by the Way in Dixie.

England's morning drum-beat around the world is not more unbroken than the ring of smoke with which Durham engirdles the earth. A very large proportion of the hundreds of millions of men in far away China and Japan, in Russia and in all other continental Europe, in England and in England's widest possessions, in the isles of the sea, in Africa and elsewhere who smoke are daily paying tribute to Durham, and thus to North Carolina and Virginia tobacco raisers and manufacturers. Other cities may run rivalry with Durham in some aspects of their tobacco business, but Durham has a history all its own in an industry which for half a century has been ever expanding. The story is old, and needs no retelling now, following the war, the tobacco business, under the lead of men of tremendous energy, grew to its present vast proportions.

A quarter of a century or more ago, when Julian S. Carr was encircling the globe with pictures of "Bull Durham" tobacco, the Dukes were building up a great cigarette industry, and even then planning for a world encompassing business. About that time one of the Dukes, in a casual visit to the office of the MANUFACTURERS RECORD, incidentally told of the plans of himself and his brothers for broadening their business activities and taking in every line of tobacco making—plans which later on resulted in the tremendous ramifications of the American Tobacco Co. Not a line had been published about those plans, but so little importance was attached to the statements made, because they seemed to reach out so far into the future, that not even a news note was made of the information so casually given. The MANUFACTURERS RECORD, like many another paper, missed at that time, as all papers do sometimes miss, the opportunity to see in the vision of a dreamer of today the realities of tomorrow.

More than thirty years ago there was an eminently respectable tobacco house in Baltimore known as Geo. S. Watts & Son, which had attained considerable prominence in the trade and accumulated a very considerable amount of wealth. The son of the company was Geo. W. Watts, and in the days when the MANUFACTURERS RECORD was young its editor was occasionally guilty of spending a little time in hunting. One day's hunt was on the farm of Geo. S. Watts near Baltimore, in company with Geo. W., who had a pack of 15 beagle hounds; and if ever a poor rabbit was jumped his chances were slim, for those 15 hounds could make sweeter music on a frosty morning than ever came from any orchestra. Geo. S. Watts was an enthusiastic lover of beagles, and when listening to the music of his big pack as they chased Molly Cottontail he would never tire of speaking of their music. A Boston man, after hearing him, every time the pack struck the trail, praise that "splendid music," said: "What music are you talking about? I don't hear anything but a lot of hounds yelping." Mr. Watts senior turned on him as the pack passed in full cry and said: "You blasted fool, don't you hear that music?" But Watts, junior, turned his attention from beagle hounds and rabbits (though, perchance, he may still be interested in both) to joining the Dukes at Durham in the development of their industry, providing therefore a considerable amount of capital. Out of that combination has grown the vast interests of the American Tobacco Co., a business which has been pushed with an energy and a zeal and a

know-how-to-do-it method matching that of any other corporation ever born. How far the methods pursued have justified the fight made against the company by the United States Government, resulting in the court's order of dissolution, I do not undertake to say; certainly I do not believe that George Watts would be guilty of doing an unethical thing. Like many another man who has gained a great fortune, he is devoting much of his time to the betterment of mankind in religious and other activities, including the building and endowment of a magnificent hospital, which for completeness probably has few superiors in the land.

When Julian S. Carr sold to the Dukes, or the American Tobacco Co., the "Bull Durham" business, many of his friends wondered whether Carr would quietly sit down and live on his money, whether he would make unwise investments and lose it, or whether he would in other lines of industry demonstrate his ability to succeed in more than one business. I do not know how many unwise investments he may have made, but certainly he seems not to have wasted any time, nor has he failed in his plans for the creation of new industries, demonstrating that his first great success was not an accident. In 1890 Julian S. Carr, Jr., came home as a graduate of the law department of Harvard. Instead, however, of giving his time to law, he chose what many will think a better thing, and with his father undertook the establishment of a hosiery mill. Out of that initial industry, of which the son is the active manager, there has been developed what, if not the largest hosiery plant in America, will probably be the largest when present plans for expansion have been completed. In this plant, or rather in the various plants owned by the company, there is an investment of about \$2,500,000, entirely a family matter. When the extensions have been completed which are now contemplated, this plant will have a daily output of about 12,000 dozen hosiery. The success of Julian S. Carr, Jr., is only a typical illustration of the inherent abilities of Southern men, whether trained in law or other professions, to turn to almost any line of business and in it demonstrate the strength and force of Southern character.

There is probably no other city of its size in America whose men of wealth, made at home and elsewhere, have invested so many millions in the development of industrial activities, railroad enterprises and water-power developments in their own section as Durham. Carr and his family, not content with their great hosiery mills at Durham, have been putting similar mills at other places, and while doing this Julian S. Carr has been developing a strong national bank, operating a flour mill, maintaining a great farm, one of the most splendidly equipped and managed in the South, and at the same time finding opportunities for many other activities—political, religious and industrial.

The Dukes, with their vast wealth, which runs into so many millions that nobody seems to know just how many, have spent millions in the development of a great interurban electric railway through much of the Piedmont South, in the utilization of water-powers into which they and their associates have put probably more than \$10,000,000, in large investments in cotton mills and in other in-

terests. They have given liberally to educational work; they have erected a magnificent church as a memorial to their father, the founder of the house, and in many other things have spent freely looking to the advancement of their section.

Durham has some palaces, but some of them front on muddy streets and roads. With all Durham's vast wealth, or the vast wealth of Durham's people, with all the rapidity of its growth and its world-encircling ring of tobacco smoke (which from my point of view is not a blessing to mankind, though the non-believer in tobacco is in a minority in this world), Durham has not yet been paved. Its main street has been macadamized, but that is badly worn; and, of course, paving has been done on some other streets; but broadly speaking, Durham is an unpaved city. If over night by the waving of some magic wand the streets of Durham could be well paved, the people of the city upon awakening in the morning would think that they had been during the hours of darkness transferred to Paradise. The effect upon the city would be magical. With the town having not only the large enterprises mentioned, but many others, including the Erwin Cotton Mills, bag factories and quite a wide variety of industries, it is surprising that a city so enterprising, with a people so ready to spend millions in the establishment of industries and in the building of homes and the endowment of colleges, should yet remain so badly paved. An active, aggressive campaign is under way for the better paving of the city, or at least a portion of it, but this campaign should be pushed until the whole city is completely repaved. Contrasting Durham with Fort Smith, Ark., the latter having a population of about 30,000, or about the same as Durham, the effect of paving as against old-time unpaved streets and roads is very striking. In a ride through Fort Smith one can travel for nearly 100 miles up and down side streets and main streets, business streets and residence streets of splendid brick paving, much of it done under one contract which alone involved 75 miles of brick paving.

Though Durham has been slow in following the good example of paving of many places, it has set an example for some towns in the central South in the building of a modern fireproof hotel, beautifully furnished and still more beautifully kept. In the Sahara of a long stretch of towns without modern hotels furnished and kept as well as that of Durham, this oasis in the desert makes the traveler feel that life is more than worth the living. There are a great many other cities in North and South Carolina and other points in the South with larger population than that of Durham where the traveler still has to put up with old antiquated fire traps, wondering nightly as he retires whether the coroner will be able to find his bones in the ashes that some day are likely to be the remnants of most of these out of date structures. This new Durham hotel, in proportion to the size of the town, well matches both in furnishing and in management the Hermitage of Nashville, in some respects one of the best built and best managed hotels to be found anywhere in the South, unless in this comparison be included some of the great resort places whose charges are sufficiently high to justify outdoing the Waldorf, but which do not always succeed in out-Waldorfing the Waldorf.

An illustration of how some of the owners or controlling powers in public utility corporations in the South are ex-

tending their work is found in the Durham street-railway system. That company, which six months or more ago passed into the control of the Doherty interests of New York, although under the same local management, has in this six months, so it is said by well informed men, done more for the advancement of the city than it had done before in six years. This is because the local management has been given authority by the financial interests that now control the company to spend money in doing things and making the public realize that they understand the responsibility which a public service corporation holds to the community in which it exists. These people are at the same time worldly wise, not only in knowing that such activity in helping the town to build up a favorable public sentiment, which is worth much at all times, but they also know that in developing the town they are adding to the value of their own property; for in such a place as Durham, for instance, where the electric light and power and street-railway system are owned by one company, every visitor to the town, every new settler, every baby born in the town is an added asset; and some corporations whose managers are wise enough to see these things are now vigorously working to bring about the development of the cities and the surrounding country. What is being done in Durham is being done by the same people and by other interests controlling other properties in many other cities of the South.

High Point, the active rival of Grand Rapids in the furniture world, is steadily broadening its field of operation. Having grown fairly rich on making furniture, which finds a market from the Pacific coast to far away Africa, High Point is turning its attention to the development of other industries. It has a car-building plant which, after investigation by the agents of the buyers, recently secured a contract for building cars for a Chicago company. It has a number of textile mills, especially hosiery mills, and is pushing out from one industry to another. High Point probably typifies the South's ability to do things by itself, of itself and through itself, with its own capital and its own energy, its own managerial ability and its own men, about as thoroughly as any other place between the Potomac and the Rio Grande. High Point is largely a product of its own people. They have developed from within, though always welcoming outside muscle and outside capital, whether the latter be capital of money, brains or muscle.

Talking by the roadside one day with an old farmer, shrewd, but illiterate, interested in the world and all that goes on so far as he can hear it by word of mouth, for he admitted to reading but little, and doubtless that is because he cannot read more, some interesting facts about conditions in one part of Eastern Carolina were developed. Similar changes are to be found in many other parts of the South. Bemoaning the fact that his farm was limited in area, and that he had never been able to make enough money to travel and see more of the world, knowing but little, as he said, of his own country, even little of North Carolina, never having been out of his own county but once when working on a road in the mountains of Western Carolina, this farmer was still willing to admit that wonderful changes had taken place, to his own advantage and that of his fellow-farmers, of recent years. He told of how in the low-price period 15 or 16 years ago he had sold his entire cotton crop at 4 cents a pound, and how on the day on



which he was talking it was quoted at 13 cents a pound. "When," said he, "cotton was selling at 4 cents a pound I could have bought any of the land in my neighborhood at about \$4 an acre; but now with cotton at the prices that have prevailed of recent years, the same land is selling at \$30 to \$50 an acre. Land which I could have bought at \$4 is now renting at \$5 an acre a year. But little land in this section is rented out for a share of the crop. Some tenants are shiftless and some years are bad, and so the landowners are not always certain as to what would be the result. They now make sure of the result by throwing the responsibility on the tenants. They rent no land except for cash payment, and the usual rate in this section is \$5 an acre a year, the tenant supplying everything."

The traveler through the South, especially one studying the highways and byways, the front streets and the back streets from a motor car, is tremendously impressed with the need of city planning. Throughout all this region there are hundreds of towns whose best investment would be to engage the services of the best city planner to be found, counting the cost of his services triflingly small as compared with the present and future value of his work. In all the villages and towns through which one may travel there are seen many costly and often beautiful homes, but most of these villages and towns are growing up haphazard without any regard to the future. Some towns have grown alongside of a railroad track, and one will see long stretches of beautiful houses and attractive grounds separated only by a roadway from a railroad whose ever-increasing business keeps up the incessant rattle of trains and the pall of smoke. Many of these towns rival the best of New England's in beautiful shade trees, and yet little regard is paid to the planting of other trees for the years that are to come or the laying out of new streets and suburban development. This haphazard way of village and town building is forever spoiling opportunities for scientific work, for embellishment of streets and yards, the establishment of small parks, and making forever impossible the arrangement of railroad facilities and merchandise handling plans for the best economic development of the place. Hundreds of towns throughout this region, places of 2500 to 50,000 inhabitants, could make no wiser investment than in securing the services of a town builder—not a town booster or town boomer, as some are called; not a man whose business it is to bring new industries, for that feature is already covered, but a man whose business is scientifically to lay out the plans for the further extension of building activities, the planting of trees and the doing of other things which make for beauty as well as for the advantages which scientific work brings in the building of a city as well as in the establishment of a factory. Now is the time when the South ought to take hold of this work with vigor and make the planning of its villages and its towns worthy of their location and their increasing wealth and population.

R. H. E.

#### Department Store Opportunity.

L. G. Cole of Durham, N. C. writes the MANUFACTURERS RECORD that there is an unusual opportunity in Durham for the establishment of a large department store, justified by the growth of the town and its increasing business.

The West Virginia Board of Trade, John J. Cornwall, president, and R. B. Naylor, secretary, will hold its ninth annual meeting at Bluefield October 16-17.

#### TURNING TO PEANUTS.

##### Interest in Their Culture Developing in the Southwest.

Chamber of Commerce,

Fort Worth, Tex., September 11.

##### Editor Manufacturers Record:

Success and certainty have combined to direct the attention of more and more of the farmers of Texas to the value of the peanut crop. By reason of the shortage in the United States there is an unsupplied demand for peanuts at high prices. Last year the Texas crop was sold at an average of 85 cents per bushel, and this year the price may be even higher. Tarrant county produces a fairly large crop of peanuts in the Cross Timber lands of the county and that is also true of the adjacent counties where there are sandy loams. Many acres in the vicinity of Mansfield, Kennedale, Smithfield and Bedford are devoted to peanut growing. The average yield in this county is 40 to 50 or even 75 bushels per acre under very favorable conditions.

Apart from the ready sale to the peanut factory representatives or others wholesale dealers, the peanut has a great value as a stock fattener and the vine makes excellent hay that is eaten greedily by cattle, horses and hogs. When grown for hogs the peanuts are generally harvested by the hogs, they being turned into the fields and permitted to root for the nuts. Peanut-fattened pork commands a high price, often topping the market. If the season chances to be so dry that corn or cotton cannot be made, the peanut thrives. Practical experience with this fact has brought conviction to many farmers, and they now devote a part of the land to peanuts and fatten stock, instead of relying on the exclusive cotton and corn crops, so characteristic of the Southern farmer. The change paid. Not only is the peanut a paying crop, but it is a soil enricher as well. Expense of peanut culture is far less than either cotton or corn, and when it comes to gathering the crop there is a yet greater difference in favor of the peanut. This year many farmers are paying \$1 per 100 pounds for picking cotton.

It takes about 500 pounds of seed cotton to make a third of a bale, or, say, 166 pounds of lint. There is a cost of \$5 for picking alone, and even at 15 cents per pound for cotton on the market, there is but \$15 per acre to recoup the farmer for rent of land, i. e., interest on his investment, cost of seed and labor, easily \$5 more. At the present prices the peanut crop is worth \$15 to \$20, with a modest yield per acre. And planting and gathering his crop will cost only a few dollars per acre instead of the \$10 or more for the cotton. If the crop is gathered by the stock, hogs and cattle there would be no cost at all for that, but a substantial enrichment of the land from the manure droppings.

Fort Worth would seem to be an exceptional location for a peanut factory, for the increased growing of the peanut in this part of Texas is certain.

R. O. McCORMACK, Secretary.

Home Products and Manufacturers' Association.

Oklahoma City, Okla., September 12.

##### Editor Manufacturers Record:

Several years of experimental work in peanut culture in Oklahoma have established the fact that this State is unexcelled as a profitable field for the growing of the Spanish variety, and that the Spanish peanut as grown in Oklahoma is unsurpassed, if, indeed, it is equalled, for making peanut butter and peanut oils. And as a stock feed no product of the soil

seems to equal the feeding value per acre of Spanish peanuts.

There are vast areas in the State peculiarly adapted to this crop, and the climate seems to be near the ideal. As a drouth resister, peanuts are not surpassed by anything that grows in Oklahoma soil, and this season has been a particularly hard test in this regard.

The acreage in Oklahoma this year will approximate 60,000 acres. This is the first year that anything like general cultivation of this plant has been undertaken. The result has absolutely established the peanut as an Oklahoma staple, and hereafter it will rank among the leading crops of the State. In some localities the yield will be low as to nuts, on account of inexperience in planting and cultivation or of inadaptability of soil. Everywhere the foliage yield is fine, in spite of the most severe drouth and heat this country has ever experienced. Where the crop has been properly treated the yield will run from 50 to 75 bushels per acre. Some "fancy" fields are expected to produce double these high yields.

About July 20 the Southwest was visited with one of the hottest "waves" ever known in this section, and the extreme heat and drouth continued until September 6, except for a few scattered showers. Kafir corn and milo maize and other crops supposed to be immune to drouth were growing rank because of the exceptionally favorable season that had preceded, with the result that they were "cooked" in the milk and prematurely ripened and the stalks withered. This will materially shorten the yield. Indian corn was caught in the maturing stage and the yield shortened in the same way. Peanuts have come to the rescue and will round out the supply of feed, which, after all, is the main thing in this country, where farming is based largely on livestock.

Because of this condition there will be a very limited quantity of threshed peanuts for the market this season. But in spite of this condition the first peanut huller to be built in the State is now in course of erection in Oklahoma City. This is being installed as an additional department of the Russell-Duncan Jobbers' Mills, manufacturers of peanut butter, etc.

The new mill will be of two cars per day capacity, and will represent an investment of about \$30,000. While this concern has not been able to contract a supply near equal to capacity, the management states that they will secure enough to make a fair showing and make Oklahoma worthy of notice from peanut buyers. This mill will take care of every bushel of Oklahoma nuts available. This ready market will assist in stimulating the farmers to grow larger areas next year, by which time it is hoped to establish this State as a factor in the production of this staple, not only as a supplementary feed supply, but as a factor in the general market in the production of nuts for commercial purposes.

PAUL B. SMITH, Secretary.

#### In Kentucky Coal Fields.

[Special Cor. Manufacturers Record.]

Barbourville, Ky., September 15.

To better handle the greatly-increased tonnage from the coal fields of Southeastern Kentucky, the Louisville & Nashville Company is expending several hundred thousand dollars in improving its facilities in the Cumberland Valley region. From present activity in construction work it appears that the long-contemplated double-tracking of the Cumberland Valley division will soon be carried out. At several points along the line additional right of way has been secured, and at this point

the company is preparing to double-track for a considerable distance. The plans include the filling in of several long trestles and double-tracking same. It is stated that an additional track will be constructed from Pineville to Corbin, a distance of 32 miles.

The coal tonnage from the newly-opened Harlan county field is diverted to the Cumberland Valley division of the Louisville & Nashville at Pineville. At Corbin the Knoxville and Cumberland Valley divisions converge, and at that point the bulk of the coal tonnage from this district is moved south over the Knoxville division. The building of an additional track between these two points has been made imperative by the heavy tonnage, which is already taxing the single track traversing the Cumberland Valley.

At Wallsend the L. & N. has built extensive yards to handle the tonnage from the radiating lines which enter the Harlan, Four Mile, Clear Fork and Greasy Creek districts. At Pineville the construction of a new depot to cost \$100,000 has begun.

Many new development projects are being carried out in the coal fields of Harlan, Bell and Knox counties. At Harlan arrangements have been completed for three large developments, which will increase the already large tonnage moving out over the Wasioto & Black Mountain branch of the L. & N. The Harlan Coal Mining Co. of Louisville has commenced work on a large plant near Coxton, three miles east of Harlan, where they completed their first operation several months ago. The new plant will ship 10 to 12 cars daily. The other developments are forecast by leases just executed to T. B. Mahan, president of the Southern Coal Mining Co., on a tract of several hundred acres of the 8000-acre leasehold of the Harlan Coal Mining Co., and another lease to F. D. Wood of Pineville, president of the Wallins Creek Coal Co. These leases expect to organize companies at once to develop these properties, and will have mines installed so as to be slipping coal by the first of the year. Mr. Mahan, who directs his mining operations from Knoxville, Tenn., is extensively interested in other properties in the Kentucky-Tennessee field. The operations to be conducted by Messrs. Mahan and Wood, respectively, will be located in the Clover Fork section of the Harlan county field.

Barbourville operators have lately organized the Looney Creek Coal Co. A mine of large capacity will be installed on Looney Fork, Harlan county. This district is reached by an extension from the Wasioto & Black Mountain Railroad, and has been the scene of considerable activity in the opening of new mines.

The Wasioto & Black Mountain line, which has been completed within the past two or three years, is now shipping an average of 125 cars of coal daily, and within another year this tonnage is expected to be doubled.

The Raceon Coal Co., Hazard, Ky., is the first coal company to begin shipments from the newly-opened Perry county field. This vast coal district was opened for development last year by the Lexington & Eastern extension from Jackson to Whitesburg, and is now the center of operations of a dozen or more coal companies. The Hazard-Dean Coal Co., Hazard, Ky., formed by Barbourville operators, is installing a mining plant of large capacity near Hazard. W. S. HUNSON.

The Board of Trade of Columbus, Ga., is circulating a folder giving reasons, in the shape of the location there of compress, cotton buyers, cotton mills, warehouses, banks, etc., why growers should consign their cotton to that city.



SKY LINE OF NASHVILLE'S BUSINESS CENTER.

### NASHVILLE'S MANUFACTURES.

**Its Industrial Importance Based Upon Nearness to Raw Material.**

[Special Cor. Manufacturers Record.]

Nashville, Tenn., September 12.

Nashville has loomed so large in the political, military and social history of the country that its industrial and commercial fame has not the reach to which its importance entitles it. Everybody knows that Nashville furnished two Presidents to the republic, but few know that it is one of the country's greatest hardwood centers. Everybody knows that it was the key to important military situations during the Civil War, and that it was witness to much hard fighting, but few are aware that it is one of the greatest foundry centers of the South. Everybody knows that it has long been one of the social capitals of the South, but few have learned that it is one of the chief publishing centers of the country. There are good reasons for all the advances Nashville has made in the past, and equally good reasons for much greater advancement in the future.

Situated within easy reach of limitless supplies of raw materials, it is natural that Nashville should become the point of assembly at which many of these are fabricated into finished forms. Chief among these are immense forests of hardwoods of the highest value in lumber manufacturing plants—the oaks, poplar, hickory, red cedar, chestnut, walnut, ash, basswood. Hundreds of millions of feet of these woods have been brought to this city to be sawed into lumber, and much of that, in turn, has been here manufactured into various finished articles. As a manufacturer of hardwood flooring, Nashville stands first of all points south of the Ohio river. Five plants are employed here in the manufacture of furniture of many kinds. Thousands of coffins and caskets are among the manufactured products. Automobile wheels, wagon and buggy materials, barrels, boxes, boats, buckets, cedar chests, hames, trunks, staves are among the articles made of lumber to a large extent, while numerous wood novelties not classified also consume much raw material and employ many men. The city is the center of the world's supply of red cedar, used in the manufacture of pencils.

The mills and other concerns here handling lumber in its various forms employ capital to the extent of \$4,795,000, and do a business of \$10,145,000 annually, the amount of lumber handled aggregating 450,000,000 feet. These concerns give employment to 2205 men. Lumber and lumber products are shipped from here to

all parts of this country and to many foreign countries as well. As there are approximately 9,500,000 acres of woodlands in Tennessee, many of them virgin as yet to the axe of the woodman, it will be seen that Nashville has a future of many prosperous years as a lumber manufacturing center.

Four iron belts lie within easy reach of Nashville, and five Nashville companies, operating in them, furnish large quantities of iron for the city's immense foundry interests and other ironworking concerns. With these advantages as a basis, Nashville has built up a foundry business hardly surpassed by any other Southern city, and second to few in any part of the country. These ironworking plants make boilers, engines, stoves, ranges, metal culverts, couplings, structural iron of many kinds, iron bridges, tools of various kinds, general hardware, metal signs, pulleys, elevators, sash-weights, surgical instruments, bed springs, steam tables, wagon and buggy irons and a general line of foundry products. The number of stoves and ranges made here last year was 204,000. The products of these plants are marketed throughout the entire country.

Middle Tennessee has long been noted among the sections of the country best adapted to general farming purposes, and was at one time chiefly instrumental in making Tennessee the leading corn-producing State in the Union. This division now produces more than half the corn grown in the State. The section close about Nashville is also the chief wheat territory of the State. It was the natural thing, therefore, for Nashville to become a milling center of more than ordinary importance. The mill products of the city, flour, meal, feedstuffs, etc., run now about \$4,500,000 annually. These mills give employment to a large number of people, and their products are sent over a wide scope of country.

Other raw materials found in Nashville's trade territory are clays, cobalt, copper, copperas, dolomite, alum, barytes, bauxite, chert, cement, epsom salts, fluor-spar, glass sand, green sand, gypsum, hydraulic rock, kaolin, granite, lead, lignite, lithographic stone, lime-stone, manganese, marble, marlstone, millstone, metallic paint, mortar colors, nitre, oxide, phosphate rock, salt, sandstone, shale, silica rock, silver, sulphur, sulphuric acid, zinc. Some of these are now being utilized to a large extent. The shales and clays are used in Nashville brick and tile plants, which annually turn out products valued at \$500,000. Nashville ships 35,000,000 brick annually. The marbles,

which are found in a great variety of colors, as well as of pure white, are worked into many forms and shipped over the entire country.

Miscellaneous manufacturing activities include tobacco, aggregating \$1,325,000 annually; newspaper and periodical publications, \$1,400,000; cars and general shop construction, \$1,800,000; book and job printing, \$900,000; men's clothing, \$750,000; harness and saddlery, \$570,000. An automobile factory is doing a good business. Its entire anticipated output for the present year, 1840 machines, has been contracted to one selling agency.

Large deposits of coal lie so near Nashville that the product can be laid down here at prices ranging from \$2.25 for lump to \$1.25 for pea and slack. This makes power much cheaper here than in most manufacturing centers. But there is another element that is destined to have a controlling influence in the power situation of Nashville, and that is the electric current brought from the hydro-electric developments on mountain streams within the city's reach. Already the Nashville Railway & Light Co. has made arrangements with the Tennessee Power Co. to furnish current from its plant on the Ocoee River. The Tennessee Power Co., with which the H. M. Byllesby interests have recently become allied, is largely augmenting its Ocoee River development, and a further increase will soon be made by a development on Caney Fork, the special purpose of which will be to supply Nashville with a sufficiency of electric power at figures that will prove attractive to its manufacturing plants. Various plants throughout the city are already using electricity from the Railway & Light Co. to the extent of 14,000 horse-power. Another thing that should, and doubtless will, have a helpful influence upon Nashville's future standing as a manufacturing city is the discovery of natural gas in sections of middle Tennessee not far removed from the city. There has been no important development of these gas deposits as yet, but the fact that they exist has been proven beyond cavil, and the development is sure to follow. When the development comes Nashville will unquestionably profit largely.

Supplementing the raw materials in making up the strength of Nashville as a manufacturing center are the city's excellent transportation facilities. These are furnished by the Louisville & Nashville Railroad, the Nashville, Chattanooga & St. Louis and the Tennessee Central, with their 6000 miles of road and by the Cumberland River, navigable for 383 miles above the city, and to its confluence

with the Ohio, 200 miles below. The railroads make connections with other roads ramifying the country in every direction, and carrying straight into its best markets for such things as Nashville's manufacturing plants produce; the Cumberland River adds to its own 600 navigable miles the thousands of the Ohio and Mississippi and the immeasurable distances of all the navigable seas that wash all of civilization's shores. On the Cumberland alone the steamers plying to and from Nashville reach 45 cities and towns, and a total of 400 landing places.

The railroads have switches and sidings leading to most of the manufacturing plants and opening up sites for many more. The Tennessee Central, indeed, belts the city with its line, rendering eligible hundreds of locations that can be secured at extremely low prices. The wharves on the river furnish adequate facilities for handling the 9,740,000 tons of freight the boats carry to and from Nashville annually. This traffic is valued at \$28,620,000. Tobacco, grain, livestock and lumber make up the greater proportion of this.

The country immediately surrounding Nashville has long been noted as the breeding ground of high-grade stock—horses, mules, cattle, hogs, sheep—in the production of all these middle Tennessee has long held place in the front rank. Some of the most famous race horses of the country have been bred here; the Tennessee mule is known as among the best of its kind; middle Tennessee Jersey cattle and Berkshire hogs and pure-bred sheep have long met on an equal footing the best produced in other sections of the country. It is a fine bluegrass region, is middle Tennessee, the hay and forage crops all do well here, and the consequence is that stock can be brought to maturity at the lowest possible cost. Dairying is engaged in to a continually increasing extent, and is found one of the most profitable lines of agriculture. It is an excellent poultry country also, and a conservative estimate places the value of the annual shipments of poultry products from Nashville alone at \$3,000,000.

Sixty-seven field crops are grown in middle Tennessee, the principal ones being corn, wheat, oats, barley, rye, buckwheat, potatoes, broom corn, clover seed, flax, beans, peas and sorghum. Of the 50 kinds of fruit and vegetables produced, the leading ones are tomatoes, strawberries, melons, cabbage, onions, okra, eggplant, cucumbers, beans, peas, squash, cauliflower, lettuce, radishes, beets, turnips, parsnips, carrots, celery, asparagus, apples, peaches, pears, raspberries, cher-





SKY LINE OF NASHVILLE'S BUSINESS CENTER.

ries, plums, citron, canteloupes, quinces, gooseberries, blueberries and blackberries.

All these things are effective in adding to Nashville's strength as a manufacturing center, for in improving living conditions, by cheapening the cost of both the necessities and the luxuries, they enable the workman to live better for the same wage, and to live as well for less, as compared to that of his competitor in other fields. The consequence is that labor of the best class—intelligent, ambitious and reliable—can be secured for factories doing business here at a less price than must be paid for the same class at competitive points, where living conditions are less favorable. Nashville has been singularly free from labor disturbances of all kinds, and the supply of labor has been always adequate and satisfactory.

The wholesale and jobbing business of Nashville has for years been very large, and it has enjoyed a marked increase during the past decade. The chief lines handled by wholesale are dry goods, groceries, shoes, hardware, hides, paving materials, lumber, drugs, millinery, hats. The wool bought and sold in Nashville each year amounts to about \$500,000, and even the ginseng trade reaches the astounding annual total of \$300,000. Nashville commercial travelers carry Nashville's sample cases into every section of the country, and some kind of business is done in all.

Among the chief aids to the manufacturing and wholesale business of Nashville are its banks. These institutions are exceptionally strong, and no legitimate and worthy business is allowed to suffer for want of money to carry out its contracts. The resources of the Nashville banks now total more than \$35,000,000, an increase from less than \$10,000,000 in 1900. The postoffice receipts have increased in the same time from \$213,056 to more than \$625,000.

No city in the South offers more than Nashville in the way of schools. The public school system is thoroughly modern, and graduates from the high school are admitted without examination to the best colleges of the country. A high-school building just completed is one of the handsomest structures of the kind to be seen anywhere, and the claim is made for it that there is none in the country better equipped. Vanderbilt University is one of the great educational institutions of the country, and Ward-Belmont school for women is also a leader in its class. Fisk University is a widely-known school for colored youth, and is probably surpassed by no college of the kind in the United States. In addition to these, there are many other schools of greater or less

degree, so that the opportunities for acquiring an education are as inviting in Nashville as in any city in the entire country.

In addition to general living conditions, Nashville offers many attractions as a home city because of the natural beauty of its location, its many beautiful homes and the generous hospitality of its people. It is a city of churches, the influence of which is felt in all life's relations. It has many handsome and costly church edifices, it is the home of the publication houses of two of the great Christian denominations, and a distinctly religious and moral atmosphere pervades all circles. It is not only a pleasant place in which to live, it is also a safe place in which to rear a family.

Nashville has recently entered upon an era of modern construction, and a number of towering office buildings now mark the skyline. Large and costly apartment-houses and excellent, well equipped and well managed hotels also are among the possessions that make it a strictly up-to-date city. A first-class street railway reaches for miles into the country in various directions.

For the casual visitor Nashville and its environs have many points of historic interest—the Hermitage, the home of Andrew Jackson, most picturesque of the country's Presidents; Polk Memorial Hall, wherein are exhibited relics and documents connected with the life and career of President Polk; the State Capitol building and its grounds, wherein are the Jackson statue, the Polk tomb, the monument to Sam Davis, the Southern scout, who died as a spy rather than betray his associates; the Historical Society rooms, containing numerous mementoes from Tennessee battlefields and a fine collection of Tennessee portraits; the old home of Walker, the great filibuster, who sought to carve out for himself a Southern empire, and many others equally interesting.

In Centennial Park stands a faithful replica of the Parthenon at Athens, the only one in any country. The city is in the midst of a network of fine macadam roads, and automobilism is a most exhilarating and pleasurable pastime, as well as a delightful means of travel throughout the Nashville section.

The enterprising and progressive business men of Nashville have banded themselves together for the city's good in the Board of Trade, an organization that keeps open a watchful eye for the main chance, and is active day and night in bringing the city and its resources and advantages to the attention of the world. They have also formed an industrial bureau, whose

special duty it is to advertise Nashville as a proper location for business enterprises. This bureau has been for some months carrying on a broad and intelligent advertising campaign, the result of which is seen in an awakened interest throughout the country in what Nashville is and has.

GEN. BYRNE.

#### GEORGIA COMMERCE CHAMBER.

Organized for the Well-Rounded Development of the State.

[Special Dispatch to Manufacturers Record.]

Macon, Ga., September 16.

More than 300 enthusiastic men, representing every section of Georgia, met here today and organized on a permanent basis the Georgia State Chamber of Commerce, with Charles J. Haden of Atlanta, president; E. W. Stetson of Macon, I. A. Bush of Camilla, R. F. Maddox of Atlanta and H. D. Reed of Waycross, vice-presidents, and W. B. Powell of Columbus, secretary. A fund of \$2000 for preliminary expenses was quickly subscribed and tentative plans were made for raising \$75,000 for advertising purposes. A number of papers dealing with various phases of the work to be undertaken were read, and enthusiastic speeches were made by several members. The scheme of organization is modeled after that of the Texas body of the kind, and contemplates the organization of commercial bodies in the towns of the State and as many of the rural districts as can be interested. More modern methods of agriculture and general crop diversification are subjects to which the organization will devote special attention, and a State-wide campaign will be inaugurated for the purpose of impressing their importance upon the minds of the farmers. Another meeting will be held in this city some time in January.

GEN. BYRNE.

#### To Improve Iron Furnace.

Referring to his company's plans for improvements in connection with its No. 2 furnace at Benwood, W. Va., John Fritz of Pittsburgh, special agent of the National Tube Co., writes to the MANUFACTURERS RECORD as follows:

"The furnace stack is to be relined from bottom of hearth jacket. Two stoves are to be relined and stove gas main will be increased from 3 feet 6 inches to 5 feet diameter. The stock line diameter will be increased from 14 feet 6 inches to 15 feet, and the hearth from 14 feet 6 inches to 15 feet 6 inches. New cast steel annealed stock ring will be installed to protect stove line. The down-comer connections are to be connected with furnace shell at 180 degrees instead of 90 degrees, as at present. Two Brassett & Whiting

10-inch centrifugal dust catchers, to operate in series, are to be installed, and also a 1,500,000-gallon centrifugal pump and several safety devices."

#### Big Dam Completed.

The West Virginia Pulp & Paper Co., Covington, Va., has completed the big dam it has been constructing on Stony River, a tributary of the Potomac, some miles above its pulp and paper mills at Luke, Md. This dam is in Grant county, West Virginia, in the Allegheny Mountains, 3400 feet above sea level. It is to store water during the rainy season for release during the low-water season, so as to make the flow of the Potomac at Luke uniform throughout the year. Construction required about 600,000 feet of lumber, 1064 carloads of native stone crushed for concrete, 584,000 pounds of steel for reinforcing concrete work, and more than 16,000 barrels of cement. The dam will form a lake three miles long and one mile wide at its widest point, covering 400 acres. It will store about 1,500,000,000 gallons, enough to operate the pulp and paper mills from five to six months. The dam was built by Ambursen Hydraulic Construction Co., Boston.

#### Deep Water for Fort Lauderdale.

William M. Heine, editor of the Fort Lauderdale *Herald* and secretary of the harbor committee of that city, writing to the MANUFACTURERS RECORD of plans for securing deep water for Fort Lauderdale by private effort, says:

"The plan, as far as it has been worked out, is to form a private corporation with a capital stock of probably \$500,000 to secure dockage and permission from the War Department and proceed to build dykes and to open the channel. It is believed that by excavating a channel after three dykes are finished the river current will be sufficient to open the channel to 25 or 30 feet. Of course, there will be a few elevated rock points which may have to be blown up, but these will be comparatively insignificant, it is believed."

Engineers have begun a d-tail survey for this work, and it is expected that the survey will be completed within a week or ten days.

The paper by A. S. Terril, president of the United States Lumber & Cotton Co., of London and Chicago, presented to the ninth International Cotton Congress, on the progress of cotton-growing in the United States, has been published in pamphlet form.

One of the three broom factories of New Orleans has recently shipped to Vicksburg, Miss., a carload of 7200 brooms.

## JOHNSON CITY INDUSTRIES.

### Influences in the Upbuilding of Its Manufacturing Interests.

[Special Cor. Manufacturers Record.]

Johnson City, Tenn., September 15.

Among the numerous cities of the South which offer so many inducements for the location of industrial plants it is doubtful if there is any in which opportunities present themselves in greater number or more varied form than in Johnson City. Lying at the eastern edge of the great Valley of the Tennessee, near where its level reaches begin to break into the foothills of the Unaka Mountains, Johnson City easily commands the unsurpassed resources of field and forest and mine in Southwest Virginia, East Tennessee and Western North Carolina, and presents almost unrivalled locations for manufacturing establishments drawing their raw materials from those sources.

In addition to agricultural products—which include the grains, grasses, truck crops, fruits, cattle, hogs, horses, sheep, poultry, all produced in abundance and at such low cost as can hardly be duplicated elsewhere—the resources of this section now being commercially utilized are coal, timber, iron ore, cement rock, clays, shale, mica, kaolin, barytes, feldspar, zinc ore, bauxite, topoli, and perhaps others that now escape my memory. Not one, however, is being developed to the extent that the deposits warrant or the demand justifies. Not all these things are utilized in Johnson City, but all could well be brought here for manufacture, for the transportation facilities, both for the raw materials coming in and the finished products going out, are such as complete the equipment of a city as a manufacturing center.

With such abundant raw materials and such excellent transportation facilities the one element necessary to a good factory location is cheap power, and in this Johnson City is well provided. Coal from the mines of Southwest Virginia can be laid down here at prices that permit the generating of steam power at very low cost, and this is soon to be supplemented by electric current transmitted from a considerable development on the Nolachucky River a few miles away in Greene county. This development, described at some length in a recent article from Greenville, is being made for the Tennessee Eastern Electric Co. of this city, and is intended for distribution here, in Greenville and in Jonesboro. When the company begins the delivery of current, which may be before this story gets into print, there will be an abundance of convenient power at most attractive prices, and the town's advantages as a manufacturing center will be fully rounded out.

Johnson City's development, however, has not waited upon the bringing in of this new element of strength, but has gone along steadily, though a trifle slowly, until it has reached a position of more than ordinary importance, and a number of manufacturing plants are enjoying the advantages offered. Among these may be noted the following:

The Model Mill, one of the most modern flouring mills in the entire country, possessing every needed equipment to put it in the front rank of its class. It produces 500 barrels of flour daily, together with 2000 bushels of meal and a large quantity of feedstuff. It buys all the local wheat that offers and ships in trainloads from other States. In the handling of the grain from the car to the grinding rollers every bit of equipment is of the most up-to-date character, and in no mill is the work done more economically.

The American Cigar Box Lumber Co.

is a unique as well as important plant, which manufactures the "makings" of cigar boxes. It saws the timber into boards or flitches and then reduces these, by further sawing or "slicing," into the very thin form necessary for the tops, sides, ends and bottoms of the boxes. Most of the native wood used is poplar, and this is veneered with Cuban cedar, cut to about 120 sheets to the inch. These pieces, in lengths that will cut without waste to the proper dimensions, are shipped direct to cigar factories all over the country. This plant has been in operation for several years, and has never had a shut-down, except for accidental cause, since the first wheel turned.

The Cranberry iron furnace, which makes iron from ore taken from the famous Cranberry beds, employs many men and turns out a big annual product. The iron is of very high quality, and finds ready sale among the ironworking plants of the country. Recent tests made with diamond drills show a very considerable extension of the iron deposits beyond where they are being worked, and give assurance of long life to the furnace business here.

The United States Leather Co. has a big tannery here, and annually reduces many thousands of raw hides to leather, which finds a wide market. This concern uses a great deal of tanbark, thus furnishing a market for a forest product that would otherwise be wasted.

The Johnson City Foundry and Machine Works and the Johnson City Boiler & Tank Co. are two ironworking concerns that employ a number of people and do a very considerable manufacturing business.

The Tennessee Lumber & Veneer Co. has a big plant engaged in making sliced and rotary cut veneers of oak and poplar, all kinds of hardwood flooring, table tops and a general line of interior trim.

The Sells Lumber Manufacturing Co. has a factory in which it makes inside trim for residences, trunk slats, etc. It ships large quantities of its output to the cities of the North and East.

The Hice Manufacturing Co. makes bent table rims, spokes and felloes, and specialties for cotton mills as well. This company also operates a big band-saw mill.

The Harris Manufacturing Co. makes golf sticks, plow handles, flooring and other specialties.

The Exum Furniture Co. makes furniture of various kinds, principally medium and low-priced suits.

Wilson & Powell have a stave mill in which they make high-class staves, mostly for tight barrels.

H. M. Yost is a manufacturer of shuttle-blocks from dogwood and persimmon.

The combined output of the various concerns is very large; they give employment to many people, and bring a great deal of money into the community. They are supplemented by various other manufacturing concerns of more or less magnitude, the effect of the whole being to create a decided factory atmosphere about the place.

The shops of the East Tennessee & Western North Carolina Railroad are located here also, and give employment to a considerable number of men.

The general offices of the East Tennessee & Western North Carolina and the Carolina, Clinchfield & Ohio roads are here, and the money paid to the men employed in them serves to swell by many thousands of dollars each year the current flowing in the city's business arteries.

Other institutions that bring a great deal of money to Johnson City are the

Soldiers' Home maintained here by the General Government, where from 1200 to 1500 veterans are cared for, and a State Normal School, with an attendance of 400 or 500 boarders each year.

The city has a number of wholesale houses that do a considerable business in groceries, dry goods and notions and hardware. It has three banks of more than ordinary strength.

The public school system of Johnson City is of high class, and it has a number of excellent school buildings. A high school building is now in progress of construction at a cost of \$50,000. It is a well-paved city, the pavement laid consisting of brick and asphalt. Of the latter it has now in use and under contract more than any city of its size I have ever seen. When the present contracts are completed there will be nine miles of paved streets. For a town of 10,000 people this is unusual. The street-car system is excellent, and cars are run within convenient reach of all portions of the town.

In the matter of water supply there is absolutely no city better equipped. The water comes from mountain springs with sufficient gravity pressure to give all the fire protection necessary. It is of pureness beyond cavil, flowing from the ground directly into the mains, and never seeing the light until it is drawn from the faucet. The city owns the watershed, which is amply protected from contamination. The water is always clear, and the supply is sufficient for a city much larger than this.

The railroad facilities are furnished by the Southern Railway, the Carolina, Clinchfield & Ohio and the East Tennessee & Western North Carolina. The Southern runs through from northeast to southwest, and gives direct connection with the chief commercial and population centers of the North and East, as well as those South and West. It is just completing a handsome and commodious passenger station, and is also putting up a large freight depot. The Carolina, Clinchfield & Ohio passes through on its way from Dante, in the coal region of Southwest Virginia, to Spartanburg, in the cotton fields of South Carolina, and will soon furnish, by way of its Elkhorn extension and the Chesapeake & Ohio, a direct line to the Great Lakes and the rich fields of the Middle West. The East Tennessee & Western North Carolina runs into the iron fields and timber reaches of Western North Carolina.

Johnson City has many handsome homes, and is full of the hospitality that makes the stranger feel that he is a native and not an alien. Its location is high, it is free from extremes of both heat and cold, and is altogether a most attractive place in which to make a home.

As a sort of postscript to this and for the purpose of showing how the resources of this section are growing in appreciation by people from other portions of the country, I wish to call attention to a series of sales of timber land, all conveying one tract. In 1874 the Murchison land, 13,200 acres of land in Yancey county, North Carolina, at the foot and extending up the sides of Mt. Mitchell, was sold for \$2800. Four or five years ago it was again sold, this time for \$158,000. It was held about a year and sold for \$240,000. Two or three years later it was sold again, this time for \$300,000. Recently the spruce standing on the tract, and forming considerably less than half the total value of the timber, was sold for \$300,000, and the purchasers think they secured a bargain. This land is reached by way of the Carolina, Clinchfield & Ohio Railroad and a short line which it has thrown out to develop this and other large timber areas.

## American Petroleum Society.

The American Petroleum Society was organized September 10 at the experiment station of the United States Bureau of Mines, Pittsburgh, Pa. This organization is the result of an effort of the bureau for the past seven years to bring together the men interested in the petroleum industry. This society will concern itself with the study of all phases of natural gases and petroleum, including the origin, statistics, conservation, drilling methods, production, transportation, storage, refining and specifications for refined products.

When it is considered that each year, within the United States alone, there is produced crude petroleum and natural gases having a value in excess of \$200,000,000, it is reasonable to suppose that the future of this society is assured. There is today a tremendous waste of natural gases which, by proper methods of drilling, could be prevented. Also there is a great waste of crude oil itself by improper methods of production, whereby in the fields producing paraffin oils the paraffin is allowed to congeal around the well, thereby sealing in the oil strata and thus preventing the recovery of the oil. The necessity for a critical study of petroleum and gas production and conservation is evident.

At the meeting on September 10 at the Bureau of Mines the constitution and by-laws were adopted and officers were elected as follows: President, C. D. Chamberlin of the National Petroleum Association, Cleveland, O.; vice-president, R. Galbreath of the Independent Oil & Gas Producers' Association of Oklahoma, Tulsa, Okla.; secretary, Dr. Irving C. Allen, United States Bureau of Mines, Pittsburgh, Pa.; treasurer, Warren C. Platt of the Independent Petroleum Marketers' Association, Cleveland, O.; acting past president, Frank B. Fretter of the Western Petroleum Refiners' Association, Coffeyville, Kans.; executive committee, Ralph Arnold, Los Angeles, Cal.; C. F. Clarkson, Society of Automobile Engineers, New York city; G. M. Swindell, Chamber of Mines and Oil, Los Angeles, Cal.; Edmund O'Neill, University of California, Berkeley, Cal.; E. B. Rich, Gasoline Producers' Association, Parkersburg, W. Va.; George H. Taber, Gulf Refining Co., Pittsburgh, Pa.

It is expected that the first annual meeting will be held at some convenient place in the United States in the spring of 1914, and the second annual meeting will be held at the Panama Pacific Universal Exposition in San Francisco in 1915. At the 1915 meeting it is anticipated that all of the petroleum societies in the country will meet in one great congress, where many things of interest and of value will be presented.

An official invitation has been sent from the president of the exposition at San Francisco to the president of the International Petroleum Commission, which meets in January, 1914, in Bucharest, Roumania, to hold its annual meeting for 1915 in San Francisco. This meeting will be part of the great meeting of the petroleum industries of America, where the foremost petroleum technologists and scientists of the world will congregate. Plans are already being formulated for this great 1915 meeting. Very shortly the Bureau of Mines will issue a report on the formation of the American Petroleum Society.

Since the beginning of the current year bond issues aggregating \$972,000 have been voted in Virginia, according to State Highway Commissioner P. St. Julien Wilson.



# Texas' 1913 Crops to Yield Millions of Dollars.

[Special Correspondence Manufacturers Record.]

Houston, Tex., September 12.

In spite of a period of drouth covering a large portion of Texas and extending from the first of July to early in September, there is every present prospect that the early forecast made in this correspondence of a seven-hundred-million-dollar yield of agricultural products for the State of Texas this year will be fully realized. Since the first days of this month there have been copious rainfalls in every portion of the State, supplying all needed moisture to the still growing crops and bringing assurance of an added wealth in forage crops, grass and also late vegetables, aggregating \$50,000,000 at the least. So far as Texas is concerned, there is no apparent occasion at this time for anything but feelings of optimism and jubilation.

To be sure, the cotton crop has been hit, and hit hard. With an increase in acreage amounting to some 700,000 acres, and a crop condition July 1 that promised anywhere between 5,000,000 and 6,000,000 bales, there has been such steady deterioration in condition, due to the long period of dry, hot weather, that on September 1 prospects of not more than a 4,000,000-bale crop were generally accepted. The slump was greatest in the big cotton-growing counties of north central Texas, and it is still agreed that much of the loss is beyond repair. Nevertheless, the rains of the past week have wonderfully revived the plant all over North Texas, and, given the not unusual condition of late frosts, the vigorous appearance of the plant in a great number of places indicates the possibility of such a top crop as may greatly swell the final aggregate. The top crop in times past has been known to lift the figures from an ordinary to a bumper yield in the closing months of the calendar year, and already there are predictions by close investigators of a 4,250,000-bale crop this year.

With all of last year's crop of cotton consumed—"practically every vestige of it used," in the words of Secretary Hester—there is every reason to believe that the prices for this year's crop will rule high. Last year the total Texas crop was about 4,880,000 500-pound equivalent bales. The lint brought \$294,000,000, according to computations on the average price for 1912 of 12.05 cents per pound for strict middling on the New Orleans market. The seed was worth \$44,600,000 in addition. These figures vary some, according to authorities, but are substantially in accordance with the facts. What the total returns will be for the 1913 crop depends on the final yield and the average price, to be sure, but with cotton around 13 cents today, and no assurance that it will not go considerably higher, and with prospects for a 4,250,000-bale crop, the cash value of this year's crop may not fall so very far short of last year's record-breaking figures, after all.

There is every sort of opinion to be found, nevertheless. Many people, having arrived at a conclusion, pro or con, seize on the same set of facts to bolster up their respective views. To one man, rains mean destruction to the open bolls and consequent deterioration to another, they mean new life and increased productivity to the plant. According to their interests, the wish is largely father to the thought. Also, the element of what is termed the personal equation enters in. It has been declared that all human beings

have to a greater or less extent a personal equation of either plus or minus, with the result that they see either more or less in a given situation than really exists. Thus, when a Government report puts a corn crop condition at 10 per cent. of normal, one man might conclude that something like a catastrophe had occurred, while another would express his views in much milder terms—would say, for instance, that apparently the crop had been injured some. So it will come about that all sorts of predictions and estimates will be heard as to the Texas cotton crop till the last pound has been picked. Nevertheless, railroad freight men, who are experts in such matters of necessity, give it as their belief that the Texas cotton crop will certainly go over 4,000,000 bales and with favorable weather conditions will very materially increase that total sum.

The Texas corn crop was practically made before the dry spell began, so a condition of 83 per cent. of normal was reported by the United States Government September 1, as against 84 per cent. at the same time in 1912. There was a loss of 3 per cent. in acreage this year as compared with last, the figures being 7,300,000 acres in 1912, as against 7,081,000 in 1913. The yield last year was 153,300,000 bushels, which sold for \$98,112,000. There had been a prediction early in the season of 200,000,000 bushels of corn in Texas this year. This now appears to be a very excessive estimate. Nevertheless, according to present "form," and with prices that will doubtless prevail, this year's Texas corn crop should be worth a good deal more than \$100,000,000.

The winter wheat yield this year was 11,812,000 bushels, as against 11,025,000 in 1912. The crop sold for \$10,253,000 last year. At this year's lower prices the returns should still be a quarter of a million dollars or so over last year's total.

Last year's oat crop totaled 31,140,000 bushels, which sold for \$13,390,000. The condition of this year's crop on September 1 was 76, as compared with a 10-year average of 69, so that this year's final figures are expected to be at least up to last year's totals.

In rice there is an acreage of 300,000, as against 265,600 acres in 1912. The yield last year was 9,429,000 bushels, having a value of \$9,000,000. In spite of some reports of sectional deterioration and a lower range of prices, it is believed the total returns will equal, if they do not exceed, those of last year.

The production of tame hay in Texas for this year is estimated at 427,000 tons, as compared with 542,000 tons for 1912. Millet, Kaffir corn, sorghum and other forage crops are not reported on in detail, but are said to have yielded well as a rule, and recent rains will make fall pasturage excellent. Cattle have not suffered from the drouth as they have elsewhere or as they did in Texas in former times, an abundant supply of water from artesian wells now being available on the ranges of the plains.

There is a reported increase of 2 per cent. in hogs over the number last year, which was 2,554,000.

Next to the agricultural and livestock interests, the timber industry is of ranking importance, the production of lumber per annum totaling more than \$55,000,000.

The value of Texas petroleum produced amounts to \$9,000,000 a year and over.

The expression of leading financiers

here is that Texas is in excellent condition; that developments in every direction will not halt, and that continued prosperity may be counted on. Nevertheless, there is a recognition of conditions that will hardly make possible an early approach to anything like boom times. Readjustment of business to the new tariff; of financial circles to new currency laws; of the world to war losses, will prevent the undertaking of important new enterprises for the present, it is believed. There are no signs of distress, it is declared, but no reasons for anticipating conspicuous activity for some months to come.

Houston did not avail itself of any of the Government crop money, and thereby hangs a rather interesting tale. It is not pretended that Houston could not have used several millions of cheap funds to advantage at the time when tension is the greatest—a few weeks before the crops begin to move—but it is worthy of note that the strain was born, as in former years, without any Government aid, and the movement of crops being now well under way, Uncle Sam will not be called on to lend a hand. Well-informed bankers, in discussing the Government offer, declared their belief that it was a very shrewd, wise move, in that it at once brought a sense of relief to everybody in the land. There had been a feeling of anxiety and a marking up of rates that gave considerable uneasiness based on disquieting world conditions. The mere announcement of the Government's readiness to extend relief brought reassurance everywhere.

As a matter of actual, practical relief to Houston, however, it would have been necessary to provide the fund weeks before it was available at all. If a considerable sum could have been secured in the early part of July, and if the machinery for disbursing the funds had been simplified for speedy action, Houston might have found the offer an advantageous one. Cotton begins to move in volume by August 20, and at once the strain is relieved. It won't be 60 days now till local banks are in position to buy commercial paper. That there will be a disposition to proceed with some caution, however, seems quite manifest. By keeping up interest rates it is the apparent intent to withhold encouragement to enterprises of an adventurous sort. If signs down here may be read aright, there will not be a speculative movement during the next few months.

If it shall be considered advisable by the Treasury Department to help in the crop movement another year, the cities of the farther South, particularly New Orleans and Houston, may be relied on, if consulted in the matter, to suggest that anything intended for them be provided early and be made easy to get at.

ALBERT PHENIX.

## The Birmingham Iron Market.

[Special Cor. Manufacturers Record.]

Birmingham, Ala., September 15.

With something tangible in the way of an early settlement of the tariff question, the buyers of pig-iron apparently feel that there is reasonable ground for an adjustment of their business conditions to conform with its prescribed regulations. This would seem to be true from the fact that some of the large buyers came into the market the past week and bought heavily for this year's delivery. A large Eastern pipe concern bought 18,000 tons, while another large concern, with headquarters in the East, bought 15,000 tons for delivery to its Southern plants. At the end of the week an inquiry was submitted for 10,000 tons, and one of the large

producers of the district made quotation on same, which in all probability will be accepted. This last-named tonnage will swell the aggregate to 43,000 tons. This iron—if the last-named tonnage is booked—was sold by one concern, and was booked on the basis of \$11 per ton f. o. b. cars at the furnace, No. 2 foundry. Another large producer, which has its books well filled up for this year's delivery of iron, also sold 1000 tons for delivery over the fourth quarter at \$11.50 per ton at the furnace, No. 2 foundry basis. There was also sold 1500 to 2000 tons of special analysis iron during the week. Therefore, with the passing of the week there was not only disposed of practically two and a half months' production of foundry iron, but the price was raised to \$11.50 per ton basis. All selling interests emphatically deny that they have opened their books for next year's delivery at any figure. With the taking on of this additional tonnage for this year's delivery the furnace interests have further fortified themselves with reference to maintaining the advanced price asked, and the large buyers have covered their requirements so as to take care of their present and pending contracts. The result has been that the smaller buyers have more or less been "lookers-on," and are somewhat handicapped by reason of the fact that present buying has not been instrumental in bringing the producer to the point of opening his books for next year's delivery, for they depend to a great extent on having their deliveries strung over several months. During the month of August furnace stocks of foundry iron were reduced 18,000 tons, so today the total tonnage of foundry iron on the yards of the furnace companies totals less than two months' make. Buyers are calling for their iron, and in addition to the iron being loaded from the block, extra crews are loading from the yard consistent with car supply. The following table of prices govern the market, based on f. o. b. cars Birmingham:

No. 1 foundry, \$12.  
No. 2 foundry, \$11.50.  
No. 3 foundry, \$11.  
No. 4 foundry, \$10.50.  
Gray forge, \$10.  
Mottled, \$9.75.  
Standard basic, \$11.50.  
Off basic, \$11.

The general feeling in pipe circles seems to be somewhat better, owing probably to the fact that prospects are better for municipalities to float their bonds. The large pipe concerns have at least protected themselves by buying considerable tonnage on a low market. Following are quotations per net ton f. o. b. cars Birmingham: Four-inch, \$22; six-inch and eight-inch, \$20.50, with an average of \$20 per ton for the larger sizes. Class "A," or gas pipe, is quoted at an advance of \$1 per ton over that asked for class "B."

The recent cool "snap" has created a very good demand for domestic coal. Steam coal is moving freely. Coke is in good demand, and so far the slight reduction in price in the Connellsville fields has had no appreciable effect South. During the past week one producer sold 50 cars for prompt shipment to a Western smelter. Furnace coke is quoted from \$2.65 to \$2.75 per ton at the ovens, and foundry coke from \$3.75 to \$4 per ton at the ovens.

With the advent of the sugar season the plantations and refineries are rushing repairs and improvements. The foundries of the district report good business for Porto Rico, Nicaragua and Cuba in shipments of sugar-house repair parts and new machinery.

### Titaniferous Iron Ores.

Bulletin 64, "The Titaniferous Iron Ores in the United States, Their Composition and Economic Value," by Joseph T. Singewald, Jr., has just been published by the National Bureau of Mines. Dr. Joseph A. Holmes, director of the bureau, in the preface to the publication, says:

"One of the problems that confronts American ironmasters is the efficient reduction of magnetite containing high percentage of titanium. From time to time the discovery of enormous bodies of workable titaniferous ore has been reported, and the available literature dealing with the geologic occurrence and the economic value of the titaniferous magnetite in the United States contains a mass of information that in part is based on incomplete observation and even on hearsay.

"Although the supplies of non-titaniferous iron ore that are available in the United States are still to be measured by millions of tons, yet the approaching exhaustion of many high-grade deposits, the general acceptance by blast furnaces of ore lower in iron than those utilized 10 years ago, and the probability of even lower-grade ores being used in increasing quantities indicate that some large deposits of ore would be contributing to the needs of the country were it not for their titanium content. In an attempt to ascertain just what the economic possibilities of the larger deposits of titaniferous iron ore may be, the Bureau of Mines took up the study of the possible utilization of these ores through some concentrating process. The conduct of this investigation was assigned to Mr. J. T. Singewald, Jr., and the results are presented in this report. Mr. Singewald was directed to pay especial attention to the possibility of utilizing titaniferous ores at a profit with present methods and devices and under existing conditions. He was authorized to study in detail the physical structure and chemical composition of the ores, as bearing on the problem of utilization, but not to undertake any detailed investigation of the origin and geologic distribution of the deposits.

"It is to be regretted that the results of Mr. Singewald's careful study of the ores are chiefly negative. Some deposits of titaniferous iron ore are clearly not as extensive nor as high in iron as they were reported to be. Moreover, examination of many samples by metallographic methods has demonstrated that although a large part of the titanium in these ores is in the form of ilmenite, much of this ilmenite is far more intimately associated with the magnetite than has generally been supposed. Part of the magnetite and ilmenite occurs in such large and distinct aggregates that their separation by a magnetic concentration after fine crushing is practicable, but in by far the larger number of samples examined, and in practically all the ore bodies that are known to be large enough and rich enough in iron to be of much importance, most of the ilmenite occurs as such fine intergrowths in the mass of magnetite that a complete separation of the two minerals by any process based on difference of physical properties still seems impractical. Crushing even to 200 mesh would not insure a clean separation of the two minerals. Consequently the problem of utilizing titaniferous magnetites involves the application of chemical rather than physical methods. In short, the problem is not one of eliminating the titanium by milling, but of reducing the ores directly by some smelting process.

"Iron ores containing over 1 per cent. of titanium are troublesome to smelt in the blast furnace. Though Rossi and other investigators have demonstrated the

possibility of eliminating titanium through the formation of relatively fluid slags consisting of complex titanosilicates, there seems to be no inclination on the part of the ironmasters to adopt furnace practice to these conditions. However, as Mr. Singewald points out, it is practicable to use in blast-furnace mixtures small proportions of the concentrates from a magnetic separation of the titaniferous ores with little change in present methods and without danger of choking a furnace. The use of electricity in smelting offers other possibilities. The reduction of titaniferous ores in electrically-heated furnaces and the production of iron-titanium alloys by a direct process are problems of such importance that the Bureau of Mines, in connection with its investigations of the treatment of ores and of more efficient methods of smelting, is undertaking experiments with these ores. The results of these experiments will be published in future reports of the bureau."

### \$1,500,000 FOR ROADS.

#### Proposed Issue for Escambia County, Florida, to Be Voted On.

Thomas A. Johnson of Pensacola, Fla., writes to the MANUFACTURERS RECORD:

"It is proposed to call an election in near future to pass road and bridge bonds issue of \$1,500,000, to run for 50 years, bearing 4½ per cent. interest; \$100,000 of this is to build a bridge across Escambia River and \$1,400,000 is to build roads on six-inch concrete foundation along the idea formulated in editorial herewith enclosed."

The editorial, which appears in the *Pensacola Journal*, says:

"The \$1,500,000 bond issue discussed by the County Commissioners for good roads purposes is a move in the right direction. And why not bond the county for \$1,500,000 for the purpose of building permanent highways? It would actually save money for the taxpayers every year. This amount of money would build at least 150 miles of paved road. That is more miles than we have today in clay roads. It would mean two paved roads north and south the full length of the county and several cross-roads east and west. And these roads would cost nothing—or practically nothing—to maintain. \* \* \* And what would those paved roads do? They would double the value of practically every acre of farm land in the county. They would double the population of the county outside of the city in five years. The new settlers alone would pay enough taxes to take care of this bond issue if you want to figure it that way. The idea of a bond issue is good, and particularly when it will not cost any taxpayer a dollar more than he is annually paying now. If the bond issue is not a good thing—why not?"

### Railway Deal to Reach Coal.

The Manufacturers Railway of St. St. Louis, according to a report from that city, has bought the St. Louis & O'Fallon Railway, which reaches the coal mines between O'Fallon and Belleville, Ill. The Manufacturers Railway is expected to build an incline on the Mississippi River at St. Louis and establish transfer boats to connect with the railway which it has purchased. The latter road is nine miles long.

Prominent mining men, surgeons of mining companies and the miners connected with the rescue and first-aid work from many parts of the United States will attend the American Mine Safety Association meeting at Pittsburgh, Pa., September 22-24.

## GOOD ROADS

### WEEK'S HIGHWAY RECORD.

#### Progress in Southern Road and Street Improvement.

[Further details of highway undertakings and bond issues mentioned below are given under the headings Construction Department and New Securities, published elsewhere in this issue.]

#### Bonds Voted.

Baton Rouge, La.—Roads District No. 1, East Baton Rouge parish, voted \$15,000 bonds for road improvements.

Bay City, Tex.—Fifth Road District of Matagorda county voted on \$60,000 bonds to construct roads.

Canton, Miss.—Madison county will issue \$50,000 bonds to construct roads.

Corpus Christi, Tex.—Nueces county voted September 2 on \$165,000 bonds for road construction.

Eagle Pass, Tex.—Maverick county voted \$25,000 bonds to construct roads.

Mexia, Tex.—City voted on \$20,000 bonds to pave streets and sidewalks in business district.

Moscow, Tex.—Road District No. 2, Polk county, voted \$40,000 bonds to construct roads.

Wekiwa, Okla.—Wekiwa township of Tulsa county will issue \$16,000 bonds to construct road.

#### Bonds to Be Voted.

Ashland, Miss.—Benton county will vote on \$7000 bonds to construct roads in Third District.

Beaumont, Tex.—Jefferson county votes October 15 on \$500,000 bonds to improve roads.

Bluefield, W. Va.—City votes October 16 on \$125,000 bonds for street improvements, etc.

Port Lavaca, Tex.—Calhoun county votes September 20 on \$5000 bonds for road construction.

Tarpon Springs, Fla.—City votes October 14 on \$25,000 bonds for street paving.

#### Contracts Awarded.

Lake City, Fla.—City awarded contract for 4000 square yards cement sidewalks.

Louisville, Ky.—City awarded contract for street paving; cost \$51,500.

Louisville, Ky.—City awarded \$600 contract for street paving.

Mansfield, La.—De Soto Parish Police Jury awarded \$21,800 contract to build 14-mile road.

Oneonta, Ala.—Blount county awarded contracts for improving five miles of roads.

Parkersburg, W. Va.—City awarded \$2500 paving contract.

Raleigh, N. C.—City awarded contract for 30,000 to 40,000 square yards street paving.

Rockingham, N. C.—City awarded contract for 50,000 yards of paving.

St. Louis, Mo.—City awarded \$36,245.93 contracts to improve streets and alleys.

#### Contracts to Be Awarded.

Baltimore, Md.—City receives bids until September 24 for 5910 square yards of street paving.

Benwood, W. Va.—City receives bids until September 23 for 3600 yards of paving.

Dallas, Tex.—City will lay 9424 square feet of cement sidewalks.

Dallas, Tex.—City will resurface 3800 square yards; cost \$6000.

Heflin, Ala.—Cleburne county receives bids until September 29 for road improvements; expenditure \$8000.

Little Rock, Ark.—Road District No. 7 of Pulaski county will construct eight miles of road.

Mountainburg, Ark.—George G. Stock-

ard and others will expend \$75,000 to construct 40-mile road.

Shreveport, La.—City receives bids September 23 for 2500 square yards of street paving.

Wauchula, Fla.—De Soto county will construct three-mile road.

### A Florida Road-Building Material.

The Titusville Fruit & Farm Lands Co. of Titusville, Fla., writing to the MANUFACTURERS RECORD regarding the formation of the rock in the vicinity of Titusville and used in road building, says:

"This rock is known as Coquina, and at one time was the bottom of the ocean. By the upheaval that occurred, as geologists say, some 50,000,000 years ago, this land was thrown up higher than the ocean and caused the St. Johns River to flow north and empty into the Atlantic Ocean 250 miles north of its head. In accordance with the geological survey of the Government, made in 1898, this coquina ridge extends from several miles north of Titusville south to the head of the St. Johns River, thence around on its western bank, north again up almost to Orlando, Florida.

"This coquina rock is composed of shells, mostly small, from an eighth of an inch to one inch, but some as large as two inches in diameter. Compacted as they have been for millions of years and the rains leaking through the vast quantity of lime in this shell, has caused them to cement until they have become almost as hard as the gray granite of Vermont, and nothing but dynamite will dislodge them. However, if broken into pieces 6x12x6 and put in a rock-crushing machine, they are easily made into rocks of three sizes: first, two inches in diameter; second, one inch, and the next size is very fine. If made upon a roadbed in the order named, and a two-ton roller put on to smooth the surface, it has proven to be the finest road-building property in the United States. Every rain that falls upon it extracts a certain amount of lime, which cements the road until its smoothness can be equaled only by the beach at Daytona for automobile riding. We have in our lands billions of tons of such rock for road building purposes."

## LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

### Storm Damage Exaggerated.

Referring to the recent North Carolina storm, C. I. Millard, president and general manager of the John L. Roper Lumber Co., Norfolk, writes to the MANUFACTURERS RECORD as follows:

"The reports of the damage to the sawmills at Belhaven, Newbern and elsewhere in Eastern North Carolina have been greatly exaggerated. It was not necessary to suspend operations at Newbern at all, and the delay at Belhaven will be only long enough to put up a smokestack. There will be very little interruption to shipments."

### Millboro Lumber Co.

The Millboro (Va.) Lumber Co., recently incorporated with \$50,000 capital stock, is constructing 10 miles of standard-gauge railroad, and will build a single-band mill with a daily capacity of 50,000 feet of lumber. It will also construct an electric-light plant, water-works, etc. This company's officers are as follows: J. M. Murdock, president; W. F. Murdock, vice-president; E. B. Murdock, treasurer; H. B. Murdock, secretary and manager; all of Johnstown, Pa., which is the company's main office address.



## RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

### ILLINOIS CENTRAL'S YEAR.

**Increase of More Than 25 Per Cent. in Net Operating Revenue—Large Equipment Orders.**

A handsome increase in net earnings is displayed by the annual report of the Illinois Central Railroad Co. Railway operating revenues for the year ended June 30 were \$64,280,903, an increase of \$5,553,631, or about 8½ per cent., as compared with the next preceding fiscal year, and net earnings were \$14,231,991, an increase of \$3,626,186, or about 25½ per cent., operating expenses having increased comparatively little. The gross receipts in both the freight and passenger departments were the largest of any year in the history of the road, notwithstanding the flood conditions in the spring, which hampered operation. The railway operating income of the company was \$11,250,848, increase \$3,438,130; gross income \$17,250,200, increase \$5,066,722; net income \$6,575,113, increase \$3,108,665; balance transferred to credit of profit and loss \$6,575,113, increase \$3,108,665.

The company ordered during the year, and up to the date of the report had received deliveries for part of this equipment: 135 locomotives, 5539 freight train cars and 105 passenger train cars, to partly provide the cost of which \$8,000,000 of equipment trust certificates were issued and sold. About \$3,000,000 were also spent for additions and betterments. Second main track was completed between Ponchatoula and Orleans Junction, La.; grades were raised between Mounds and Cairo Junction, Ill.; tracks were elevated in Memphis and the construction of a new passenger station there was begun. Other important improvements were either completed or are under way.

The general balance-sheet exhibits the total assets of the Illinois Central as \$352,995,590.78, an increase of \$14,513,625.44 over last year. This includes the road and equipment at \$131,615,230.01, the total property investment being \$293,638,214.12.

### TO EXTEND 100 MILES.

**San Antonio, Fredericksburg & Northern Railway Co. Announces More Construction.**

President R. A. Love of the San Antonio, Fredericksburg & Northern Railway Co., San Antonio, Tex., with reference to a recent report that the company, which is now completing its 25-mile line from Reister to Fredericksburg, Tex., would build a further extension, perhaps to Dallas or Fort Worth, advises that 100 miles additional construction will be under way soon. He does not mention the places which it is proposed to connect by the extension, and it is therefore interesting to observe that there have been rumors that the extension beyond Fredericksburg might go to either Brady or Brownwood, Tex., either of which would not be on a direct line to Dallas or Fort Worth, being to the northwest of the present terminus. The principal feature of the line now being finished is a 910-foot tunnel 10 miles from the junction with the San Antonio & Aransas Pass Railway at Reister.

### Louisville & Nashville Improvements

The cut-off line for coal traffic which the Louisville & Nashville Railroad is building between Winchester and Irvine, Ky., involves considerable heavy construction, according to a recent report. It

crosses broken country containing deep ravines, necessitating many cuts and fills. Winston & Co. of New York are the general contractors, and among those having subcontracts are Johnson & Briggs of Winchester, Ky.; Sturm & Dillard, Columbus, O.; Sims & Co. of Winchester; J. M. McClusky, Louisville; J. C. Carpenter & Co., Clifton Forge, Va.; Emery Contracting Co., Tamaqua, Pa.; Jones-Gray Construction Co., St. Louis; J. M. Hassett & Co. and D. J. Grant & Co., Cincinnati; Burton Construction Co., Richmond, Va.; Foster-Creighton-Gould Company, Nashville, Tenn., and the Virginia Bridge & Iron Co., Roanoke, Va.

Over Red River there is a bridge 1800 feet long and 180 feet high. At Dry Fork there is another 500 feet long and 85 feet high. The Burch cut, near Winchester, is a feature, being 1200 feet long and 90 feet deep, but the Mobley Hill cut is 3200 feet long and 108 feet deep in the center. There is a tunnel 547 feet long. At Howard Creek will be a viaduct 170 feet high and about 1250 feet long. A fill over one of the ravines is 300 feet long and 90 feet deep on the center line. A viaduct 360 feet long and 88 feet high will be erected three miles south of Red River. At Caloway Creek there is a viaduct over 400 feet long and 65 feet high. This affords a general idea of the nature of the work.

J. H. Peyton, Louisville, is chief engineer of construction for the railroad company, and the construction is under his direction. He also has charge of the grade revision between Winchester and Paris, Ky., on which Mason, Hanger & Co., Lexington, Ky.; Hough & Spradlin, Knoxville, Tenn.; H. W. Miller, North Mt. Vernon, Ind., and Duane & Carland, Toledo, O., are employed.

### Important Trackage Arrangement.

The Houston & Texas Central Railway and the Bryan & Central Texas Interurban Railway have made arrangements for the use of each other's lines, as a result of which through service will be established between Bryan and Giddings, Tex., via Stone City and Caldwell, 52 miles, this service being conducted by the Houston & Texas Central.

This arrangement came about in consequence of the completion of the Houston & Texas Central bridge over the Brazos River near Stone City, and the Bryan & Central Texas obtains the use of that bridge to reach its extension on the other side of the river from Stone City running down that stream to Wilcox, about 20 miles. The Bryan & Central Texas Interurban will therefore be able to run trains directly from Bryan over the bridge and through to Wilcox; connection being made for the bridge at a point called Bryan Junction. It is thus rendered unnecessary for the last-named company to erect a bridge, which would have been expensive. Regular service is now being conducted over the new route.

W. E. Saunders is president of the Bryan & Central Texas Interurban Railway, which, according to a recent report, may build a further extension from Wilcox southward. L. M. Hewert of Bryan is traffic manager. He is also secretary of the Bryan Commercial Club.

### New Equipment, Rails, Etc.

San Antonio, Uvalde & Gulf Railway has ordered 2 consolidation locomotives and 2 10-wheel locomotives from the American Locomotive Co., New York.

International & Great Northern Railway Co., it is reported from Austin, Tex., is authorized under an equipment contract just approved by the Railroad Commission to purchase 13 oil-burning consolidation freight locomotives and 1000 cars, the

latter including 200 36-foot steel underframe ventilated box cars, 200 36-foot steel underframe box cars, 400 36-foot steel underframe stock cars and 200 36-foot all-steel gondola cars.

St. Louis Southwestern Railway has filed an equipment contract at Austin, Tex., covering 20 locomotives, 200 steel underframe coal cars, 2 steel underframe parlor cars and 3 dining cars, costing \$660,000. The Baldwin Locomotive Works, Philadelphia, builds the engines and the American Car & Foundry Co., St. Louis, builds the cars.

Southern Pacific lines in Texas have received considerable new equipment on orders placed this year, which include 12 Pacific passenger locomotives, 25 Mikado freight locomotives, 300 gondola cars and 500 box cars of steel and steel frame construction, 20 chair cars, 20 coaches and 12 baggage cars of all-steel construction and 5 McKeen gasoline motor cars.

### Stone Mountain to Atlanta.

A letter to the MANUFACTURERS RECORD says that the Georgia Power Co. by October 1 will be operating its new railway extension from Stone Mountain to Atlanta on a regular schedule. The grading is now completed excepting one-half mile through Clarkston, where the company experienced some trouble owing to injunctions having been filed. Construction there, however, is proceeding and damage adjustments are to be made later on. Track is already laid from Atlanta to a point within a quarter of a mile of Clarkston, and the loop in Stone Mountain and all street improvements there are finished, while track is laid thence toward Atlanta to a point within one and one-half miles of the underpass at the crossing of the Georgia Railroad, which carries the line up to the Wimpy property that extends one and one-quarter miles to Clarkston. In another week this should be finished to that town, when grading there should be ready for the connection which will then be made to establish a through track.

### Charleston to Summerville.

A report from Charleston, S. C., says that the Charleston & Summerville Interurban Railway Co. has obtained an extension of its franchise and will begin construction as soon as money market conditions permit. It has obtained rights of way and completed many preliminary arrangements for its proposed interurban railroad from Charleston to Summerville, 20 miles, and the construction of street railways in both places, the total length of the latter to be altogether not more than 15 miles. Some grading has been done. It is contemplated to use either electricity or gasoline as motive power. The company may also go into the lighting, heating and power business with either gas or electricity. J. L. David is president; Edward W. Hughes, secretary, and M. M. David, treasurer at Charleston.

### Arapahoe - Baird's Creek Tramway.

President J. M. Reel of the Arapahoe-Baird's Creek Tramway Co., Arapahoe, N. C., says that although its property was greatly damaged by the recent severe storm, causing loss of wharves and warehouses, the company is rebuilding and contemplates buying a light locomotive to operate on its 36-inch-gauge tramway, which hauls freight and passengers between Arapahoe and Baird's Creek, whence Newbern is reached via gasoline boat. This railroad and boat line has been in operation for two years.

I. H. Farmer has been appointed right of way engineer for the Seaboard Air Line, succeeding G. H. Earp, promoted.

## MINING

### PHOSPHATE PRODUCTION LARGE.

**Nearly 3,000,000 Tons Mined—Florida Produced Nearly \$10,000,000 Worth.**

Phosphate rock, which is the principal source of one of the three fertilizing elements necessary for plant growth, was marketed in the United States last year to the extent of 2,973,332 long tons, valued at \$11,675,774. This was a slight decrease in both quantity and value compared with the figures for the preceding year, but the amount of phosphate rock mined was greater than in 1911, excepting in South Carolina. In Florida the increase was 3 per cent., in Tennessee it was over 12 per cent., and in the Western phosphate field it was over 10 per cent.

Stocks of phosphate rock on hand also increased in the two main producing Southern States, Florida and Tennessee. On the whole the industry in the main Southern phosphate field was active.

The production of phosphate rock in Florida was 81 per cent. of the entire output of the United States. The output of this State, which at the present time leads in the phosphate industry, was with one exception, that of 1911, the greatest in the history of the State. The quantity marketed for the year was 2,406,899 long tons, valued at \$9,461,297—a slight decline both in tonnage and value compared with 1911. Tennessee furnished 14.2 per cent. of the phosphate marketed in the United States in 1912, the total production of the State being 423,333 long tons, valued at \$1,640,476. In South Carolina 131,490 long tons was marketed, valued at \$524,700—a considerable decline compared with 1911.

In the Western States the production of phosphate came from Idaho, Utah and Wyoming, and amounted to 11,612 long tons, a gain of 10.5 per cent. compared with 1911. The value of the product increased considerably, the average price per ton being greater in 1912 than in 1911.

The United States Geological Survey has just published an advance chapter from "Mineral Resources, 1912," by W. C. Phalen, giving, besides statistics of production of phosphate rock for the whole country, figures showing the production of the individual States for the last five years. Tables showing imports and exports of fertilizer materials are also given, as well as the production of phosphate rock in the principal countries of the world. The phosphate industry in the different States is briefly discussed, and the author gives general information of interest to those engaged in the phosphate trade.

The report may be procured without cost by addressing the Director, United States Geological Survey, Washington, D. C.

### East Texas Iron Industry.

Referring to plans for iron-ore developments in Cass county, Tex., Joseph B. Babb, secretary Chamber of Commerce, Shreveport, La., writes to the MANUFACTURERS RECORD as follows:

"The visit of George E. Gilmer of Shreveport and myself to the Cass county fields was at the invitation of the citizens of Atlanta, Tex., for the purpose of inspecting the developments of the East Texas Iron Association, of which D. M. Barringer of Philadelphia is president and E. E. Vaughan, formerly of the Virginia Coal & Iron Co., is the general manager. We could only inspect a portion of the properties, but what we saw was impressive. The East Texas Iron

Association has something over 13,000 shafts or wells for the purpose of determining the ore-bearing quality of the land. Over 8000 were discarded on account of the insufficient ore. The other shafts show from 30 to 50 per cent. ore producing, and on 4000 acres would indicate an average of 10,000 tons per acre. The Association has leased the furnace at Rusk from the State and will make pig-iron there, obtaining its coke either from Oklahoma or Birmingham. We are especially interested here in getting pig-iron at a lower rate than it is now and for the purpose of developing the manufacture of finished products. We have just been notified by the United States Geological Survey that E. F. Burchard in 1914 will make a survey of the ores in Northern Louisiana and Eastern Texas."

## FOREIGN NEEDS

### Iron Work Wanted.

N. Reisner, 111 Diszergasse 1, Vienna, Austria-Hungary, writes to the MANUFACTURERS RECORD as follows:

"I have a buyer, first-class wholesale firm here, for about 700 to 1000 tons girders and joists in lengths of fabrication (12-16 meters) on cash payment. Shall be obliged if you will have the kindness of naming me the addresses of some reliable American suppliers of this material to whom I could apply for offers, or if you will induce them to let me have such offers, quoting lowest possible price c. i. f. Hamburg and including my commission. Albums of the sections (stating weights and all other particulars) ought to be sent to me. As Austria, Germany and Belgium are syndicated for these materials, there would be, I think, a favorable opportunity now for American rolling mills or exporting houses to introduce themselves in our country. Of course, they must allow the cheapest possible price, considering the freight expenses and the high entrance duty."

### Wants Water-Works Engine.

J. C. Ball & Co., Lyallpur, Punjab, India, write to the MANUFACTURERS RECORD as follows:

"Kindly advise manufacturers to give C. I. F. Karachi quotations by cable on a water-works engine which should be compound, double-acting, with flywheel and surface condenser to pump six to eight gallons of water per stroke, with water and feed pump attached: H. P. Cylr. 8 inches diam.; L. P. Cylr. 15 inches diam. by 15-inch stroke."

### Advertising Novelties, Etc.

H. Mehta & Co., Nadiad, Gujarat, India, write to the MANUFACTURERS RECORD that they want to correspond with manufacturers of advertising novelties and toys, with a view to arranging for agencies to market such products in India.

### "The Best Medium of Advertising."

Harvey Baker, secretary-treasurer of the Mutual Equipment Co. of Richmond, Va., writes to the MANUFACTURERS RECORD:

"We believe in giving praise where praise is deserved, and wish to state in this connection relative to your paper that it is the best medium of advertising in the world for our lines, and has far exceeded our expectations. We have received inquiries to our advertisements as far South as Florida and as far West as California, and the best way to express our belief in its value is to say we expect to continue as we have in the past. We would not be without it."

## TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

### Oklahoma Hosiery Company.

Home Products and Manufacturers' Association,  
Oklahoma City, Okla., September 12.

Editor Manufacturers Record:

The Oklahoma Hosiery Co., with an investment of \$30,000 and a complement of 100 automatic knitting machines of the latest design, is beginning the manufacture of a line of medium-priced ladies' hosiery. The capacity of the plant is 400 dozen pairs a day. From 50 to 60 people will be employed. The company will dispose of its own product, instead of selling through jobbers. They will begin with the local trade and steadily widen their territory until the entire Southwest is covered. As this company will confine itself entirely to ladies' medium-grade hosiery, its operation will serve to strengthen this section as field for the manufacture of other similar lines, such as men's hose, medium and cheap underwear, gloves, etc. The opening of this industry also serves to emphasize the need in this State for a cotton mill making the coarser fabrics, baggings, twines, etc. There are already a number of manufacturing concerns making use of that class of fabrics as their raw material, and with a mill more would come in. The Oklahoma Hosiery Co. is headed by T. H. Lindley of Oklahoma City as president and J. B. Barker of Philadelphia as general factory superintendent. Mr. Barker is a graduate of the school of experience in the knitting industry in Eastern cities.

PAUL B. SMITH, Secretary.

### Riceville Knitting Mills.

The Riceville (Tenn.) Knitting Mills will erect a 62x32-foot building and install machinery for a daily capacity of 300 dozen pairs of misses' fine ribbed hosiery. R. J. Fisher of the Athens Hosiery Mills, Athens, Tenn., will manage this plant, and it is to be established in lieu of the mill Mr. Fisher was recently reported as to locate at Etowah, Tenn. This Riceville company was reported incorporated last week with \$35,000 capital stock.

### The Cotton Movement.

In the first 12 days of the present season, according to Col. Henry G. Heister, secretary of the New Orleans Cotton Exchange, the amount of cotton brought into sight was 454,851 bales, an increase over the same period last season of 79,251 bales. The exports were 229,401 bales, an increase of 101,320 bales. The takings were, by Northern spinners, 43,430 bales, an increase of 7723 bales; by Southern spinners, 80,522 bales, an increase of 10,557 bales.

### For Manufacturing Rugs.

C. R. Borders, Box 35, Cedartown, Ga., plans to establish a mill for the manufacture of cotton rugs, and invites information, including prices on the necessary machinery.

### To Erect \$7000 Addition.

The Rome (Ga.) Hosiery Mills will build a two-story addition costing \$7000,

and upon its completion will install additional new machinery to increase capacity. This company now has 249 knitters, 64 ribbers, 38 loopers, dyeing machinery, finishing equipment, etc., employing 250 operatives on the production of hosiery.

### Culpeper Silk Mills.

The Culpeper (Va.) Silk Mills has organized with officers as follows: President, James Rigby, Jr., Paterson, N. J.; vice-president, Charles Forbes, secretary, L. F. Smith; both of Culpeper. Reports state that this company succeeds the Rigby Silk Co. of Paterson, and will establish a plant at Culpeper. The new company was recently reported incorporated with \$50,000 capital stock.

### Holston Branch Mill.

The Holston Manufacturing Co., Lenoir City, Tenn., will lease building for its Morristown (Tenn.) branch hosiery mill reported last week. This will be a 206x61-foot mill-construction building, having gravel roof. It will be equipped with 250 knitting ribbers, electric power, etc. The plant will cost \$60,000.

### Textile Notes.

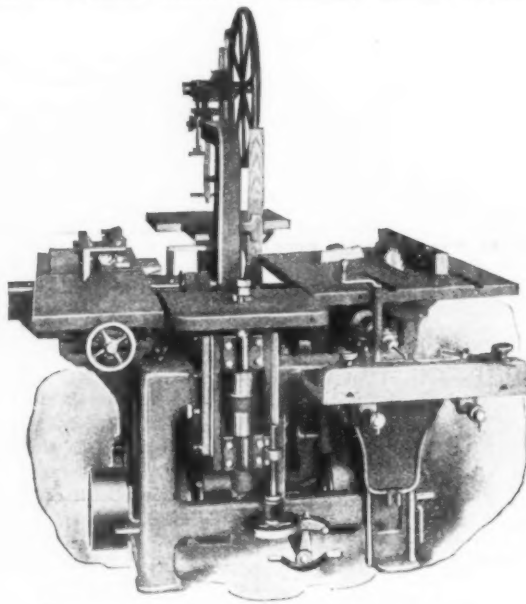
The Martel Manufacturing Co., Egan, Ga., will add four spinning frames and

developed the "Famous 30" Universal Woodworker shown in the illustration.

The use of this machine eliminates the necessity of providing a number of separate installations for the various operations, thus effecting a saving of expense for machinery, installing, power in running them, floor space required and maintenance cost. This machine comprises a jointer with removable cylinder head to permit of using special heads, band saw, rip and cut-off saw tables arranged for dadoing, etc., borer and shaper and adjustments are provided for sand drum, disc sander, emery grinder, felloe rounder, wagon tongue and pole rounder, hollow chisel mortising and tenoning attachments, planer, spoke tenoner, equipment for wheel equalizing and rim boring, special make-up and coping heads, panel-raising attachment and knife grinder, making over 20 different kinds of work for one machine.

Five men may readily work on the machine at one time on different woodworking operations. It is supplied either with or without a motor base. The motor and pulley at the bottom are out of the way of workmen, permitting free movement about the machine.

The economy in power required is indicated by the fact that a five-horse-power motor or gasoline engine is all that is necessary; economy in space is shown by



THE "FAMOUS 30" UNIVERSAL WOODWORKER.

one warper, contract having been awarded for this machinery.

The Roberta Mills of Concord, N. C., will, it is reported, rebuild plant previously burned and install 3000 spindles, with P. M. Keller in charge.

The Irene Mills, Gaffney, S. C., will build a 68-foot addition costing probably \$7500. This company operates 3328 spindles, 76 looms, etc., by electric power, on the production of damask, table covers, etc.

The Conestee Mills, Greenville, S. C., will, it is reported, install automatic looms to replace other weaving machinery. This company now operates 16,680 ring spindles, 371 broad looms, 40 cards, etc. on the production of sheetings and drills.

## MECHANICAL

### The Sidney Tool Co.'s New Universal Woodworker.

With the object of presenting for the use of carpenters, builders, wagon-makers and other woodworkers a machine which combines several different operations, thus offering combined economy and efficiency, the Sidney Tool Co. of Sidney, O., has

its requiring less than 50 square feet, or about 6x8 feet, of floor space. It is of iron construction, the main frame being cast in one piece of smooth and attractive design. It is not necessary to start or stop any one attachment to operate another. The jointer is of standard type, with all adjustments. The saw table tilts 45 degrees, and is made to be raised and lowered for grooving or slot cutting. The borer is driven by endless belt from main driving shaft, and is arranged to accommodate hollow chisel mortising attachment and a number of other attachments that are operated by the borer. The shaper is of the single spindle reversible type, with raising and lowering arbor and hinged table. The speed of main driving pulley and shaft is 1000 revolutions per minute.

These machines are reported to be in extensive use by contractors, carpenters, wagon-makers, in lumber yards and shops and other woodworking lines.

Director Allerton S. Cushman of the Institute of Industrial Research at Washington, D. C., has published a bulletin on "Pure Iron versus Copper-Bearing Steel."



# Construction Department

## TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

### EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

### HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

### WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription to the Daily Bulletin is included for the contract period.

### BRIDGES, CULVERTS, VIADUCTS

Ark., Little Rock.—Pulaski county let contract Bertie & Martin to build 3 concrete bridges on Sweet Home Pike and one on Frazier Pike.

Ark., Mountainburg.—Geo. G. Stockard and others will expend \$75,000 to construct 40-mi. automobile and wagon road and two 125-ft. steel bridges; lately noted. (See Road and Street Work.)

Ark., Wilmet.—Ashley County Comms., Hamburg, Ark., contemplate constructing bridge across Bayou Bartholomew.

Fla., Fort Myers.—Lee county defeated \$200,000 bonds to construct bridges and improve roads. (Lately noted.)

Fla., Jacksonville.—Duval County Comms., Frank Brown, Clerk, will construct reinforced concrete bridge on Lem Turner Rd. over Moncrief Creek; bids until Sept. 26. (See Machinery Wanted.)

Fla., St. Augustine.—St. John County Comms. will build bridge over Deep Creek; 1200 ft. long, 16 ft. wide.

Fla., St. Petersburg.—Pinellas County Comms. will construct concrete bridge across Booker Creek; plans and specifications in Clerk's office, Clearwater, Fla.; bids opened and contract let at Oct. meeting; lately noted. (See Machinery Wanted.)

Ga., Dalton.—Whitfield and Murray counties will expend \$3000 to \$6000 to construct bridge across Conasauga River; steel span, 100 ft.; substructure concrete; approach 72

ft.; steel; concrete floor; bids opened Oct. 11; information furnished by H. J. Wood; lately noted. (See Machinery Wanted.)

Ky., Frankfort.—City and Franklin county will have plans prepared by S. F. Creelhus, Louisville, Ky., to strengthen condemned south abutment of St. Clair St. bridge over Kentucky River; Mr. Creelhus will supervise work.

Ky., Ludlow.—City Council considering building reinforced concrete bridge; cost \$25,000; Wm. Purell, City Engr.

La., Mansfield.—De Soto Parish Police Jury let contract Thos. Larkin, Sherman, Tex., to build concrete bridges in connection with roads. (See Road and Street Work.)

La., Mooringsport.—Caddo Parish Police Jury will build steel bridge about 600 ft. long over Caddo Lake; J. T. Bullen, Parish Engr., will instruct Waddell & Harrington, Engrs., Kansas City, Mo., to invite bids.

La., Natchitoches.—Natchitoches Parish Police Jury, G. H. Pierson, Member of Com., will construct 2 steel bridges across Cane River, at Chopin and Marco, according to plans by I. W. Sylvester, Alexandria, Va.; bids received and opened Oct. 8. (See Machinery Wanted.)

La., New Orleans.—Dept. of Public Property, W. J. Hardee, City Engr., Room 19, City Hall, is preparing plans for Strauss bascule trunnion bridge over entrance to Southern Yacht Club pen; 28-ft. span; 20-ft. roadway; 2 sidewalks 4 ft. wide; semi-through girder type, with overhead counterweight. (Strauss Bascule Bridge Co., 104 S. Michigan Ave., Chicago, lately noted to superintend construction.)

Md., Elkton.—Ceil County Comms. will construct steel bridge, with masonry substructure, over Stony Run.

N. C., Fayetteville.—Cumberland County Comms. will build 7 bridges across canals

Beaver Dam Creek near Gilreath's Mill; contract let Sept. 27; plans and specifications known on day of letting. (See Machinery Wanted.)

Tenn., Chattanooga.—Legislature passed bill authorizing \$500,000 county bonds to construct bridge across river at Market St. Address Hamilton County Comms.

Tenn., Dandridge.—Jefferson county let contract Virginia Bridge & Iron Co. Roanoke, Va., to construct bridge; cost \$25,000. (Previously noted.)

Tex., Corpus Christi.—Nueces and San Patricio County Comms. let contract C. Q. Horton, Austin, to build steel bridge across Nueces River at Borden's Ferry, connecting 2 counties.

Tex., Houston.—City will construct riveted connected steel swing bridge across Buffalo Bayou on Hill St.; present bridge to be removed; 300 ft. long; 6-ft. sidewalk on each side; bids until Sept. 24; Ben Campbell, Mayor. (See Machinery Wanted.)

Tex., Kingsville.—City votes Sept. 27 on \$81,000 bonds for bridge and road improvements and sewer construction. Address The Mayor.

Va., Bowling Green.—Caroline county will construct concrete bridge 44 ft. long over Ware Creek; superstructure 2 20-ft. reinforced concrete spans; 12-ft. roadway; bids until Sept. 29; further information on application to P. St. J. Wilson, State Highway Engr., Richmond. (See Machinery Wanted.)

Va., Glade Hill.—Franklin county will construct bridge across Pig River; 230 ft. 3 in.; standard 119-ft. span and steel approach spans; concrete substructure; bids received Sept. 27 at Rocky Mount, Va.; P. St. J. Wilson, State Highway Engr., Richmond, Va. (See Machinery Wanted.)

Va., Powhatan.—Powhatan county will construct bridge across Jones Creek; 37 ft.

## PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGES 82 and 83.

In order to secure best bids from leading engineers, contractors and investment houses, the proposal advertising columns of the Manufacturers Record are invaluable.

Rate 20 cents per line per issue.

When Proposal Advertisements cannot be sent by mail in time to secure insertion before date for opening bids, please wire advertisement copy by Night Letter.

Proposal Advertising must reach us not later than 9 A. M. Wednesday.

being constructed in connection with drainage system in Flea Hill Drainage Dist. lately noted.

N. C., Fayetteville.—Atlantic Coast Line R. R., E. B. Pleasants, Ch. Engr., Wilmington, N. C., let contract W. Z. Williams Co., Macon, Ga., at about \$175,000 for concrete work, consisting of piers and abutments for bridges and culverts to be constructed over Cape Fear and Neuse Rivers, Black Creek, Mingo Canal, etc.; require 12,000 cu. yds. concrete; Cape Fear River bridge will have 2 abutments and 3 piers, one pier to be 80 ft. high on foundation of 230 piles; A. P. Cornell of Williams company, Barnwell, S. C., is in charge.

N. C., Lexington.—Davidson County Comms. let contract Carolina Bridge & Iron Co. construct 4 highway bridges; cost \$3718.

N. C., Washington.—Beaufort County Comms. will rebuild bridges lately destroyed by storm; expend \$100,000.

N. C., Washington.—Beaufort County Comms. let contract R. S. Neal at \$13,750 to rebuild steel bridge across Pamlico River lately reported destroyed by storm.

Okla., Chickasha.—Grady County will construct 3 bridges—2 across East Bitter Creek, 50-ft. steel spans, 20-ft. approach; one across Spring Creek, 60-ft. steel span, 20-ft. approach; contract let Sept. 22; F. P. Bradley, Clerk; lately noted. (See Machinery Wanted.)

S. C., Greenville.—Greenville County Comms., T. J. Newby, Member of Com., will construct wood bridge (across Tiger River) known as Few Bridge, and one over

c. to c. span; concrete or reinforced concrete substructure; bids received until Sept. 22; further information on application to P. St. J. Wilson, State Highway Commr., Richmond; lately noted. (See Machinery Wanted.)

W. Va., Ceredo.—Town voted \$4500 bonds to build steel bridge across Jordan's Creek. Address Town Clerk.

W. Va., Martinsburg.—Berkeley county will construct concrete bridge across Middle Creek, 8 mi. from Martinsburg; 35-ft. span of waterway, 16-ft. wide roadway and 5 ft. high from present water level to center of arch, with capacity to distribute 150 lbs. per sq. ft. or concentrated load of 20-ton road roller; bids at Clerk's office until Sept. 24. (See Machinery Wanted.)

### CANNING AND PACKING PLANTS

Fla., Zephyrhills.—Zephyrhills Sugar Mills contemplates installing canning plant.

Ga., Moultrie.—Moultrie Packing Co. will be inceptd. with \$100,000 capital stock to establish packing plant and abattoir.

Miss., Natchez.—J. A. Hawkinson, A. L. Hopkins and others, Chicago, purchased Natchez packing plant; contemplates expanding \$100,000 for improvements, principally to increase capacity for compound lard; present daily capacity, 75,000 lbs. lard, 350 hogs and 65 cattle.

Tenn., Dayton.—Dayton Canning Co. organized with W. H. Rodgers Pres., L. N. Rodgers V.-P., W. A. Sherman Secy.-Treas. and Mgr.; erect building; equip for canning fruits and vegetables; also deal (jobbers) in cans and canners' supplies; lately noted inceptd., \$15,000 capital stock. (See Machinery Wanted.)

### CLAYWORKING PLANTS

La., New Orleans.—Bricks, etc.—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, advises: Will build plant for manufacturing building, fireproof and fire-clay bricks, china from kaolin, patterns, etc. (See Machinery Wanted.)

Tex., Fort Worth.—Pottery.—Fort Worth Pottery Co., capital \$20,000, inceptd. by John Scharbauer, B. P. Brummett and C. C. Willingham. (Lately noted, under Motors and Garages, Tex., Hondo.)

### COAL MINES AND COKE OVENS

Ala., Anniston.—W. J. Edmondson contemplates developing coal deposits.

Ky., Benham.—Loony Creek Coal Co., Barboursville, Ky., organized with H. G. Lusk, Wallend, Pres.; W. E. Johnstone, Rim, V.-P.; Chas. D. Cole, Secy.-Treas.; Geo. A. Clutts, Mgr.; receiving bids on electric machinery to develop 175 acres; contemplates daily output 600 tons; lately noted inceptd. (under Harlan) with \$15,000 capital stock. (See Machinery Wanted.)

Okla., Condon.—Herron Coal Mining Co., W. F. Herron, Mgr., will develop 160 acres, daily capacity, 300 to 600 tons; organization not completed; lately noted incorporated, capital \$20,000. (See Machinery Wanted.)

Okla., Williams.—Williams Coal Co., Fort Smith, Ark., organized with G. T. Williams, Pres. and Mgr.; S. H. Abbott, V.-P.; W. T. Henry, Secy.; machinery installed; develop 1040 acres; daily output 300 tons. (Lately noted inceptd.)

Tenn., Knoxville.—Roy Ten Coal Co., 1211 Holston National Bank Bldg., organized with H. S. Pless, Pres.; Geo. P. Chandler, V.-P.; G. A. Atchley, Secy.-Treas.; daily output 1000 tons. (Lately noted inceptd., \$25,000 capital stock.)

W. Va., Logan County.—Main Island Creek Coal Co. organized by John Laing, Charleston, W. Va., and others of Cincinnati, Boston and Philadelphia; will develop 27,000 acres coal land; plans include 12 mine openings, central electric-power plant, steel tipplers, etc. (Mr. Laing lately noted purchasing 27,000 acres for development, expecting annual output 5,000,000 tons coal.)

W. Va., Man.—Deegans Coal Co., capital stock \$25,000, inceptd. by Thos. F. Bailey, Jr., W. R. Fulton, J. W. Hager, Jr., and others.

W. Va., Welch.—Panther Coal Co., capital stock \$150,000, inceptd. by Wm. Leckie, A. E. Jennings, S. J. Kell and others. (Lately noted to develop coal mining lease and build 50 miners' houses.)

### COTTON COMPRESSES AND GINS

Miss., Evansville.—Evansville Gin Co. organized with Burch Williams, Pres., and A. M. McCormack, Secy.; opens bids Oct. 1 to erect 22x56 ft. \$1500 building; install three 70-saw gins. (Lately noted inceptd., capital stock \$3500.)

N. C., Shelby.—Farmers' Co-operative Ginning Co., capital \$10,000, inceptd. by W. W. Wilson, D. O. Wilson, A. P. Spake, J. E. Crosby and others.

Tex., Gilmer.—Gilmer Compress & Warehouse Co., capital stock \$14,250, inceptd. by W. G. Barwell, J. E. Corley and H. P. McGaughey.

Tex., Velasco.—Velasco Power Co. will rebuild gin burned at loss of \$6000.

### COTTONSEED-OIL MILLS

La., Natchitoches.—Planters' Cotton Oil Co. is name of company lately noted organized with \$50,000 capital; purchased Grand Ecure Cotton Oil Co.'s plant; Morris Aaron, Pres.

Miss., Vicksburg.—Caldwell Cotton Oil Co., capital \$10,000, inceptd. by J. C. Caldwell, W. T. Caldwell and H. S. McKesky.

Tex., Fort Worth.—L. C. Elbie Cottonseed Oil Co., Chicago, purchased Fort Worth Oil Mills; considering increasing capacity.

### DRAINAGE SYSTEMS

Ark., Jonesboro.—Comms. Purell Slough Drainage Dist. let contract R. F. Bascomb, Lake City, Ark., to construct main canal 19 mi. long and lateral 2 mi. long; issue \$25,000 bonds; Guy W. Cobb, Engr.

La., Shreveport.—Comms. of Caddo Levee Dist., J. M. Sentell, Pres., will improve

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

drainage in Caddo parish: Bennetts Pass, Bayou Pierre, La.; excavation, 40,000 cu. yds.; bids until Oct. 1. (See Machinery Wanted.)

S. C., Bamberg.—J. E. Mills, University of South Carolina, Columbia, and others contemplate system of dykes and ditches to protect about 5000 acres on S. Edisto River; surveys and plans by U. S. Dept. of Agriculture, F. G. Eason, Drainage Engr., Charleston; probably open bids about Oct. 1; land for farming.

Tex., Anahuac.—Drainage Dist. No. 2 voted on \$12,500 bonds to construct drainage system. Address Dist. Commrs.

### ELECTRIC PLANTS

Ala., Ronoke.—City will issue \$20,000 electric-light and water-works bonds; W. Y. Chewning, Mayor.

Ark., Hot Springs.—Citizens' Electric Co. will rebuild power plant recently reported burned; may erect central station on another site about 1 mi. from burned plant; C. C. Chappelle, V.-P., Federal Light & Traction Co., 60 Broadway, New York (which controls Citizens' Co.), in charge of rebuilding.

Fla., Homestead.—F. J. Powers petitioned City Council for franchise to build electric-light and ice plants.

Fla., Largo.—J. N. McClung will build electric-light plant.

Ky., Cloverport.—Cloverport Ice Co. will install electric-light plant; machinery ordered.

Ky., Erlanger.—Erlanger Light & Power Co. secured municipal franchise and will build electric-light plant.

La., Welsh.—City voted \$15,000 bonds to build electric-light plant. Address The Mayor. (Lately noted.)

Mo., Ava.—City granted franchise J. W. Pettit & Co. to build electric-light plant; secure power from old Wilson Mill, 5 mi. from Ava.; cost \$10,000.

Mo., Kearney.—Kearney Electric Light Co., L. Major, Mgr., will construct transmission line from Excelsior Springs to Kearney, distance 10 mi.; 13,200 volts; cost \$5000. (Lately noted inceptd., \$5000 capital.)

Mo., Marceline.—City will erect addition to electric-light plant; purchased equipment, including 2 boilers, feed-water heater, 2 Corliss engines and boiler-feed pump; L. A. Nickell, Supt. (City lately noted voted \$10,000 bonds.)

Mo., Pleasant Hill.—Edward H. Crow, St. Louis, petitioned Public Service Com. for permission to purchase property of Reader Light, Ice & Fuel Co. and approval of contract with city to furnish street lighting; contemplates organizing company with \$40,000 capital stock and to issue \$35,000 bonds.

Mo., Wellington.—Wellington Light & Power Co. organized with W. H. Breuer, Pres., H. E. Neese Secy., Walter Westerman Mgr. and Engr.; plant in operation. (Lately noted inceptd.)

Okla., Chelsea.—City will construct proposed electric-light plant; bids opened Sept. 16; Jno. L. Jones, City Clerk.

S. C., Lake City.—City contemplates installing electric-light plant; cost about \$12,500; bonds previously noted voted. Address G. L. Sauls. (See Machinery Wanted.)

Tex., Beeville.—Beeville Power & Light Co., J. W. Greer, Gen. Mgr., organized, \$150,000 capital, to take over properties Beeville Water Co., Beeville Ice & Power Co. and Beeville Mfg. Co.; will furnish town with electricity, heat, cold-storage, ice, distilled water, water service, etc., for Beeville, and probably surrounding towns.

Tex., Boerne.—Boerne Light & Ice Co., capital stock \$15,000, inceptd. by Geo. H. Cushman, E. J. Altgelt and Henry C. King, Jr., all of San Antonio.

Tex., Mineral Wells.—Mineral Wells Electric Co., capital \$65,000, inceptd. by Percy Jones, W. E. Kaufman and D. T. Bomar.

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will install electric plant. (See Land Developments and Machinery Wanted.)

Va., Amherst.—City votes Sept. 23 on \$10,000 bonds for electric-light plant and water-works. Address The Mayor. (Lately noted.)

Va., Millboro.—Millboro Lumber Co., J. M. Murdock, Pres., Johnston, Pa., construct electric-light plant, etc. (See Lumber Manufacturing.)

### FERTILIZER FACTORIES

La., New Orleans.—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, advices: Will erect fertilizer plant

with daily capacity 500 tons; now excavating for buildings. (See Machinery Wanted.)

### FLOUR, FEED AND MEAL MILLS

Ala., Montgomery.—H. M. Hobbie Grocery Co. let contract Nodyke & Marmon Co., 1833 W. Morris St., Indianapolis, for additional corn mill machinery. (Will not install roller flour mill; late report incorrect.)

Fla., Lake Butler.—F. M. Rivers contemplates installing equipment to mfr. pearl grits and bolted meal.

Ga., Macon.—Modern Flour Mills, capital \$20,000, inceptd. by J. Sanford Birdseye and Ralph T. Birdseye, Macon, and W. V. Tupper, Nashville, Tenn.; occupy 3-story building at foot Poplar St.; daily capacity 500 bbls. flour; ordered mch.

### FOUNDRY AND MACHINE PLANTS

Fla., Jacksonville.—Gas Plants.—V. C. Severance and C. H. Childs (of Greenleaf & Crosby Co.) are promoting organization of company to mfr. individual gas-generating plants for residences.

Ky., Louisville.—Cars.—Gateway Car Co., capital stock \$10,000, inceptd. by Charles Schimpeler, A. C. Graham and F. A. Graham.

Md., Baltimore.—Stoves.—S. B. Sexton Stove & Mfg. Co., 7-9 S. Gay St., let contract Thos. B. Stanfield, 103 Clay St., to erect building at Conway and Little Sharp Sts.; 3 stories; 60x150 ft.; brick and concrete; concrete foundation; Mottu & White, Archts., 322 N. Charles St. (Lately noted.)

Md., Baltimore.—Brass Castings.—T. Robert Jenkins Brass Co., 327-329 Colvin St., will erect building; 1 story; steel frame and corrugated iron; 36x68 ft.; Patapasco Iron Works, Contr., Carey and Melleny Sts.; install 10 brass furnaces and additional equipment costing about \$5000; now receiving machinery bids; manufacture brass, bronze and aluminum castings and plumbers' supplies; present daily output, 500 lbs.; contemplate tripling output.

Mo., Westbrook.—Cotton Pickers.—Dana Cotton Harvester Co., capital stock \$500,000, inceptd. with J. O. Knowlton, Pres., W. K. Dana Treas.; to mfr. and introduce machines for picking cotton in field; Mr. Dana wires Manufacturers Record that he is not ready to announce details.

Mo., St. Louis.—Shop.—Jenne Dougherty will remodel shop at 5900 Washington; cost \$5000.

Tex., Beaumont.—Machine Shop, etc.—Magnolia Petroleum Co. (main office, Houston) will rebuild machine and carpenter shops burned at loss of \$50,000.

Tex., Houston.—Engine and Pumps.—Southern Engine & Pump Co. succeeds Southern Gas & Gasoline Engine Co.; will continue plant. (Lately noted inceptd., \$40,000 capital, by C. W. Marlin and others.)

### GAS AND OIL ENTERPRISES

Ga., Atlanta.—Cobb Realty Co., Geo. McKenzle, Treas., Fourth National Bank Bldg., will construct 2800 ft. gas main. (See Machinery Wanted.)

Okla., Ardmore.—Sewanee Oil Co., capital \$20,000, inceptd. by Arthur Adams, Ardmore; W. H. Irwin and T. D. McNaughton, Fort Worth, Tex.

Okla., Bluefield.—Sand Lick Oil & Gas Co., capital \$50,000, inceptd. by Thos. W. Bradley, C. M. Jennings, John M. Custard and others.

Okla., Cushing.—Gasoline.—Cushing Gasoline Co., capital stock \$200,000, inceptd. by Ray B. Jones and C. F. Hillman of Cushing, and Frank Brown, Independence, Kans.

Okla., Enid.—Marquette Oil Co., capital \$10,000, inceptd. by Sam Billings, E. M. Billings, Walter S. Billings and John F. Curran.

Okla., El Reno.—Rainy Creek Oil Co., capital \$5000, inceptd. by A. G. Shires and Geo. L. Beckton of El Reno and A. R. Easton, Oklahoma City.

Okla., Lawton.—Lawton Imperial Oil & Gas Co. opened material proposals September 1; 5 miles pipe lines; Engr., T. M. Beckett. (Lately noted incorporated, \$10,000 capital.)

Okla., Muskogee.—Celestine Oil Co., capital \$25,000, inceptd. by Geo. W. Sterling, L. W. Griffith, R. R. Clark and others.

Okla., Muskogee.—Oklahoma Crude Oil Co., capital \$15,000, inceptd. by W. F. Crabtree, Gordon J. Murray and William S. Cochran.

Okla., Oklahoma City.—Shaeffer Oil & Gas

Co., capital \$15,000, inceptd. by A. M. Shaeffer, C. A. Elkins, C. E. Close and others.

Okla., Oklahoma City.—Sloane Oil Co., capital \$5000, inceptd. by C. F. Sloane, A. L. Nims, Kee R. McKee and O. L. Cordell.

Okla., Oklahoma City.—Taylor-Dale Oil & Gas Co., capital \$5000, inceptd. by A. W. Dale and R. F. Hubbard, Cement; C. C. Taylor, Sapulpa, and others.

Okla., Oklahoma City.—Valley Oil & Gas Co., capital stock \$10,000, inceptd. by Thos. E. Kirby, J. M. Stubblefield, S. B. Howard and Victor E. Harlow.

Okla., Okmulgee.—Jones Drilling Co., capital \$3200, inceptd. by W. T. Foley, Lee A. Voorhees, J. W. Kiehl and others.

Okla., Pryor.—Archer Oil Co. advices has 110 acres proven territory for development; lately noted inceptd., \$10,000 capital stock, by J. E. Bristow and others. (See Machinery Wanted.)

Okla., Tulsa.—Bixby Drilling Co., capital \$3000, inceptd. by John M. Ingram, W. O. Dickenson and W. H. Aspin.

Okla., Tulsa.—Nejolo Oil Co., capital \$6000, inceptd. by C. R. Jones, Tulsa; W. P. Newman and W. W. Loudon, Denver, Col.

S. C., Chester.—Gas Plant.—Bachman & Co., 624 Stock Exchange Bldg., Philadelphia, Pa., applied for municipal franchise to build gas plant.

Tex., Bangs.—City granted 25-year franchise to J. B. Snow and Chas. Strange to furnish gas.

Tex., Bryan.—Gas Plant.—City Council granted franchise L. M. Hewitt and O. E. Gammit to build gas plant.

Tex., Stamford.—Co-operative Oil Co. organized; R. M. Dickenson, Pres.; Haywood Hamblett, V.-P.; Walter McDaniel, Secy.-Treas.

W. Va., Charleston.—Nectar Oil Co., capital stock \$25,000, inceptd. by Frank Cox, J. E. Crawford, Robert Watt, R. S. Carr and others.

W. Va., Yawkey.—Boon Drilling Co., capital stock \$10,000, inceptd. by M. C. Crispin and S. E. Sybrant, Yawkey; T. E. Hundley, Huntington, and others.

### ICE AND COLD-STORAGE PLANTS

Fla., Homestead.—F. J. Powers petitioned City Council for franchise to build ice and electric-light plants.

Ky., Elizabethtown.—Brown Bros. (Elizabethtown Ice & Ice-Cream Co.) let contract for building; concrete; 30x30x30 ft.; machinery supplied; daily capacity, 20 tons.

Mo., Burlington Junction.—Burlington Junction Ice Co. (Monk & Fordyce), Lon Monk, Mgr., will let contract to erect 40x57½-ft. building; install equipment for 10-ton ice plant; lately noted. (See Machinery Wanted.)

Mo., Chanuey.—S. W. Crall will install 10-ton ice plant; states location not decided. (Lately noted.)

Mo., Macon.—Federal Fruit & Cold Storage Co., Whitney-Central Bank Bldg., New Orleans, La., inceptd., capital stock \$300,000; E. G. Simmons, Pres.; Jas. L. Wright, V.-P.; Philip Simmons, Secy.-Treas.; will erect cold-storage plant with capacity 25,000 to 30,000 barrels apples; desires correspondence with manufacturers and builders to this line; recently incorrectly noted under "Miss." (See Machinery Wanted.)

Mo., Slater.—G. A. Heller and W. T. Nock building 25-ton ice plant; plans, specifications and supervision by Robert M. McCandlish Engineering Co., 723 Midland Bldg., Kansas City, Mo.

Tenn., Paris.—People's Coal & Ice Co., capital stock \$20,000, inceptd. by J. W. Lewis, Ben Thompson, C. R. Harris and others.

Tex., Beeville.—Beeville Power & Light Co., J. W. Greer, Gen. Mgr., organized to take over properties Beeville Ice & Power Co., etc. (See Electric Plants.)

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will install ice plant. (See Land Developments and Machinery Wanted.)

### IRON AND STEEL PLANTS

Ala., Mobile.—Steel Plant.—Southern Steel Co., L. C. Davis, Consult. Engr., Chicago, let contract Irvington Horticultural Co., Mobile, to clear site for plant; clear and fill 50 acres; upon completion begin steel plant construction; plant in two units, each 500 tons daily capacity; plant and by-product coke ovens, 1000 tons daily capacity; to cost about \$7,000,000. Future plans include rolling mills, also iron and steel pipe mfr. (Lately noted organizing with \$30,000,000 capitalization, etc.)

W. Va., Benwood.—John Fritz, special agent, National Tube Co. (general offices, Frick Bldg., Pittsburgh, Pa.), advices Manufacturers Record relative to improvements to No. 2 furnace: Re-line furnace stack from bottom of hearth jacket; re-line 2 stoves and increase stove gas main from 3 ft. 6 in. to 5 ft. diam.; increase stock line diam. from 14 ft. 6 in. to 15 ft. and hearth from 14 ft. 6 in. to 15 ft. 6 in.; install cast-steel annealed stock ring to protect stove line; connect down-corner with furnace shell at 180 degrees (now 90); install two 10-in. centrifugal dust catchers; also 1,500,000-gal. centrifugal pump and several safety devices. (Lately noted.)

### LAND DEVELOPMENTS

Ala., Birmingham.—Hudson Improvement Co., B. B. Hudson, Treas., will develop 15 acres near Birmingham for residential purposes; erect dwellings; cost of improvements, \$45,000. (Lately noted inceptd., \$10,000 capital stock.)

Fla., Tarpon Springs.—City votes Oct. 14 on \$5000 bonds for park improvements. Address The Mayor.

Mo., Kansas City.—Phillips Land Co., capital stock \$30,000, inceptd. by W. Huttig, Pres.; E. T. Phillips, Secy.; Chas. Campbell, Treas.; develop 10 acres in Clay county.

S. C., Bamberg.—Glendale Spring Co., capital stock \$10,000, inceptd. by J. F. Folk, S. G. Mayfield, J. A. Byrd and others.

S. C., Chick Springs.—Chick Springs Co. increased capital stock from \$35,000 to \$100,000; will improve 136 acres. (Previously noted.)

S. C., Gaffney.—Ross Land Co., capital \$24,000, inceptd. by D. C. Ross, Pres.; J. E. B. Jeffries, V.-P.; B. L. Hanes, Secy.-Treas.

S. C., Sunnysbrook (not a P. O.).—Sunnysbrook Development Co., capital \$30,000, inceptd. by J. A. Loft, F. M. Boyd, G. G. Waters and Y. May, all of Johnston, S. C.

Tenn., Memphis.—Mathews & Speed purchased land to develop residential suburb; 6 acres; J. T. Ferguson, Engr.

Tex., Dallas.—Dallas Suburban Realty Co., capital stock \$60,000, inceptd. by Alb de Lorenzi, M. Coerver and L. P. Gamble.

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will develop 225 acres for townsite and 10,000 acres for farming at junction of Nueces, Frio and Atascosa Rivers; improvements will include graded streets, cement walks, water-works, electric-light plant, ice plant, school, hotel, cotton gin, etc.; cost \$70,000; bids to construct dam, drill artesian wells, build hotel and ice plants received now; lately noted inceptd., \$30,000 capital. (See Machinery Wanted.)

W. Va., Charleston.—Capital City Improvement Co., capital \$40,000, inceptd. by W. D. Lewis, Bradford Noyes, Jos. Ruffner and others.

### LUMBER MANUFACTURING

Ark., Little Rock.—H. H. De Witt Lumber Co., capital \$100,000, inceptd. by H. H. De Witt, Pres.; C. P. Simon, V.-P.; S. E. Wilkin, Secy.-Treas.

Ark., Little Rock.—Coulson Lumber Co., capital stock \$40,000, inceptd. by W. N. Coulson, B. C. Sweeney, C. M. Green and others.

Ga., Kinderhook.—J. N. Bray, Valdosta, Ga., purchased 5000 to 6000 acres timber land; will build sawmill and tram road.

Ky., Martin County.—Cold Water Timber Co., 802 Robson Prichard Bldg., Huntington, W. Va., organized; S. J. Hyman, Pres.; H. Bishop, V.-P.; Philip Preece, Secy.-Treas.; erect mill; cost \$8000; daily capacity, 40,000 ft. logs. (Lately noted inceptd., \$15,000 capital, under Huntington, W. Va.)

La., Garden City.—Albert Hanson Lumber Co. advices will not establish additional mill. (Recent report incorrect.)

La., New Orleans.—Ollie Cypress Co., capital \$50,000, inceptd. by W. S. Bender, Pres.; J. T. Orillon, V.-P.; T. M. Cotten, Secy.

La., Strader.—Owl Bayou Cypress Co. will rebuild sawmill lately reported burned at loss of \$48,000.

N. C., Hendersonville.—J. R. Wilson Lumber Co., capital \$25,000, inceptd. by F. E. Willson, Alex. Willson and J. R. Willson.

Okla., Bokoma.—Wilson Lumber Co. will rebuild lumber plant, including single band-saw mill, 3-room brick kiln, light plant, water-works, sheds, etc. (Lately reported burned at \$500,000 loss.)

S. C., Charleston.—B. P. Burton Lumber Co. increased capital stock from \$40,000 to \$1,520,000; wires Manufacturers Record that



details of plans connected with increase are not now available.

**S. C. Spartanburg-Davenport Lumber Co.**, capital stock \$15,000, inceptd. by B. M. Davenport, G. M. Hart and G. G. Davenport. **Tex.**, Bartlett.—Mutual Lumber Co. will erect building.

**Tex.**, Bartlett.—Wm. Hatch will build planing mill.

**Tex.**, Malakoff.—Malakoff Lumber Co., capital stock \$600, inceptd. by J. J. Carson, H. P. Barton and Z. T. Jackson.

**Va.**, Millboro.—Millboro Lumber Co., J. M. Murdock, Pres., Johnstown, Pa., construct single band mill, with necessary electric-light plant, water system, etc.; daily capacity mill, 50,000 ft. timber; construct 10 mi. standard-gauge railroad, 1 mi. being completed. (Lately noted incorporated, \$50,000 capital.)

**W. Va.**, Sterling (not a P. O.).—Sterling Timber Co., capital stock \$10,000, inceptd. by S. M. Javins and C. H. Mead, Peytona, W. Va.; J. C. Clair, Charleston, W. Va., and others.

### MINING

**Ark.**, Malvern—Sand and Gravel.—W. S. Kirkham purchased sand and gravel bar in Ouachita River; will install steam shovel and dredge.

**La.**, Baton Rouge—Sand and Gravel.—T. P. Singletary promoting organization of company with \$100,000 capital stock to develop sand and gravel beds of Amite River.

**La.**, New Orleans—Asbestos.—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, advises: Will mine and manufacture asbestos; daily capacity, 100 tons. (See Machinery Wanted.)

**La.**, New Orleans—Slate.—Brandin Slate Co., capital stock \$10,000, inceptd. by John J. Prendergast, Pres.; Albert Brandin, V.P. and Mgr.; Wm. P. O'Shea, Secy.

**Miss.**, Taylorsville—Marble and Stone.—C. F. Peterson and others interested in developing quarry; install plant; daily capacity 2000 cu. ft.

**Mo.**, Carl Junction—Lead and Zinc.—Dallas Mining Co., capital stock \$50,000, incept. by A. D. Shockley (Pres.), Cincinnati, O.; W. C. Taylor of Carl Junction, John Bottenfield and C. S. Strohm of Joplin, Mo.; leased 20 acres mining land at Carl Junction and will develop.

**Mo.**, Duenweg—Lead and Zinc.—E. F. Cameron, Joplin, purchased 8 acres mining land and contemplates development.

**Mo.**, Joplin—Lead and Zinc.—Missouri Hills Zinc Co. sold, to Kansas City capitalists, Cactus mine, 20-acre lease near Joplin; new owners purchased 250-ton concentrating mill and will remove to Cactus mines; probably install additional equipment and electrify entire plant.

**Mo.**, Joplin—Lead, etc.—United Iron Works states purchased lately-noted plant for re-sale of machinery; will not operate.

**Mo.**, Joplin—Lead and Zinc.—Portland Lead & Zinc Co. will develop 40-acre mining lease; erect 200-ton concentrating mill.

**Mo.**, Neck—Lead and Zinc.—Redbrush Mining Co. purchased 150-ton concentrating plant and will remove to mining operations near Neck City; S. J. Whitwood, Carthage, Mo., superintending removal.

**Mo.**, St. Louis—Lead.—Doe Run and St. Joseph Lead companies will, it is reported, consolidate as St. Joseph Lead Co. with capital \$20,000,000.

**Mo.**, Thoms Station, R. F. D. from Webb City—Lead and Zinc.—James Luke, Byron Ash, S. C. Boggess and others contemplate developing Boggess-Gibson mine; propose erecting concentrating plant.

**N. C.**, Mortimer—Granite.—Wilson Rock Crusher & Moulding Material Co. will be inceptd. with \$15,000 capital stock by J. W. Pope, F. H. McLaughlin and C. E. Crosby, all of Newton, N. C.; purchased 200 acres along Wilson's Creek, containing granite deposits; will develop; mfr. building material, crush rock for streets, etc.

**Tenn.**, Cleveland—Gold.—Tennessee Gold Mining & Milling Co., capital \$10,000, inceptd. by M. S. Lemons, R. G. Spurling, Philip Bernhard and others.

**Va.**, Harrisonburg—Black Marble.—Virginia Marble & Stone Quarries Co., capital \$100,000, inceptd.; E. D. Davis, Pres.; J. Newton Wilson, V.P. and Secy.; L. M. Davis, Treas.

**Va.**, Roanoke—Pyrites.—Pyrites Co. will erect frame and corrugated-iron building on Tinker Creek; cost \$5000.

### MISCELLANEOUS CONSTRUCTION

**Ala.**, Fairhope—Pier.—Magnolia Beach Pier Co., Geo. S. Goodbrad, Pres., let contract to

erect wharf and 3 warehouses at Magnolia Beach; cost \$4000; lately noted inceptd. (See Machinery Wanted.)

**Ark.**, Plalaview—Earthwork.—Fort Smith Lumber Co., C. W. Jones, Gen. Mgr., will excavate 15,800 cu. yds. earth for railroad grading; deepest cut 3 ft., highest fill being 11 ft.; bids received until Sept. 26. (See Machinery Wanted.)

**Fla.**, Fort Lauderdale—Channel, etc.—Harbor Committee, Wm. M. Heine, Secy., proposes organization of company with \$500,000 capital to deepen channel, construct dikes, etc.; estimated cost, \$300,450; Hobart A. Crabtree, Civil Engr.

**Fla.**, Tarpon Springs—Dredging.—Welsh Development Co. and J. C. Beekman contracted with Hillsborough Dredging Co., Tampa, for 100,000 cu. yds. dredging on Welsh property on Whitcomb Bayou and Beekman Point; construct bulkhead.

**Ga.**, Atlanta—Subway.—Asa G. Candler, W. T. Ashford and others signed agreement with Southern Ry. (B. Herman, Ch. Engr., Washington, D. C.) to construct subway. (See Road and Street Work.)

**La.**, New Orleans—Earthwork.—Mississippi River Com., 4th Dist., C. O. Sherrill, Capt. Engrs., will construct 629,000 cu. yds. earth work in Lower Tensas levee dist.; bids received until Sept. 18. (See Machinery Wanted.)

**La.**, New Orleans—Levee.—Board of State Engrs., Frank M. Kerr, Chief State Engr., 213 New Orleans Court Bldg., will construct following levee work: Merick Levee, Pointe Coupee parish, Atchafalaya River, left bank, new levee, 20,000 cu. yds.; Harlem Levee, Plaquemines parish, Mississippi River, left bank, Search ditch and enlargement, 33,000 cu. yds.; Venice Levee, Plaquemines parish, Mississippi River, right bank, enlargement and wooden revetment, 17,000 cu. yds. earthwork and 6000 ft. wooden revetment; bids until Sept. 17. (See Machinery Wanted.)

**La.**, New Orleans—Levee.—Levee Comms., New Orleans Levee Dist., H. J. Malochee, Pres. pro tem., 201 New Orleans Court Bldg., will construct following work in Lower Fifth Dist., Mississippi River, right bank: Aurora enlargement, 6000 ft. long, 25,000 cu. yds.; Cut-off Rd. enlargement, 4000 ft. long, 40,000 cu. yds.; Couret-Orleans new levee, 2400 ft., 100,000 cu. yds.; Stanton new levee, 1550 ft., 50,000 cu. yds.; Stanton enlargement, 2200 ft., 31,000 cu. yds.; Huguet pile bank protection, 250 ft. long; bids until Sept. 23. (See Machinery Wanted.)

**Mo.**, Hayre de Grace—War Dept., Washington, D. C., let contract Dorsey & Miller, Washington, D. C., to deepen channel in Susquehanna River.

**Miss.**, Greenville—Levees.—Mississippi Levee Comms. let contract T. M. Hemingway, Arkansas City, Ark., Moose Lake sub-levees; C. H. Dulaney & Co., Greenville, Lake Lee enlargement; R. L. Stewart, Donaldsonville, La., concrete caps.

**Mo.**, St. Louis—Railway Incline.—Manufacturers' Railway Co. of St. Louis, Hollis Marsh, Ch. Engr., will build incline.

**N. C.**, Beaufort.—Board of Army Engrs., Washington, D. C., in report to Congress, recommends appropriation of \$14,000,000 to construct 7-ft. barge canal Beaufort to St. John's River, Fla., as Southern extension of Atlantic inland waterway chain from Boston to Gulf; 10-ft. canal considered too costly for present time and disapproved; estimated canal of that depth cost \$31,000,000; enrgs. also disapproved building canal across Florida peninsula, connecting waters of Atlantic Ocean and Gulf of Mexico; board states eventually such a canal would be necessary for water traffic, but it does not believe the day for construction yet arrived; investigated four routes across peninsula and considers St. James River, Oklawaha River, Lakes Griffin and Harris and Withlacoochee River route most feasible; cost of canal, 10-ft. depth along this route, estimated at \$16,538,000, with \$375,000 for annual maintenance; states 7-ft. canal along same route can be constructed for \$13,000,000. (Proposed inland waterway from Boston to Beaufort lately detailed.)

**Tex.**, Beaumont—Docks, etc.—Magnolia Petroleum Co., Houston, Tex., will have plans prepared for wharves and docks costing \$60,000; purchased Smith's Island, comprising 230 acres, giving company control of land on both sides of river.

**Tex.**, Freeport—Piers.—Houston & Brazos Valley Ry. Co., T. G. Banks, Supt., will construct 2 piers for passenger ferry boat; piling and wood construction; company's force will erect. (Lately noted.)

**Va.**, Richmond—Gateway.—City will build gateway at Oakwood Cemetery to cost not more than \$10,000; invites archts. to submit

designs for granite entrance. Charles E. Bolling, City Engr.

**Va.**, Richmond—Bulkhead.—City let contract L. Hankins & Co., Richmond, to build bulkhead; 150 ft. long; wing 25 ft. long; width 50 ft.; cost \$3000.

### MISCELLANEOUS ENTERPRISES

**Ala.**, Birmingham—Printing.—South Side Printing Co., capital stock \$4000, inceptd.; C. H. Hudson, Pres.; Ed. Wood, V.P.; A. N. Hudson, Secy.-Treas.

**Fla.**, Fort Myers—Navigation.—Estero Navigation Co. organized with Wm. Wallace, Jr., Pres.; W. K. Flowerree, V.P.; H. E. Heltman, Secy., Treas. and Mgr.; operate 2 boats for fruit and freight hauling; boats built.

**Fla.**, Kissimmee—Cattle.—Carson Cattle Co., capital stock \$250,000, inceptd.; C. A. Carson, Pres.; J. M. Carson, V.P.; C. A. Carson, Jr., Secy.-Treas.

**Fla.**, Kissimmee—Laundry.—Harry W. Thurman will build steam laundry and garage in connection with theater. (See Motors and Garages.)

**Fla.**, Ybor City, Station Tampa—Dairy.—Ybor City Dairy Co., capital stock \$10,000, inceptd.; A. W. Giampietro, Pres.; Pietro Spoto, Treas.; W. S. Anderson, Secy.

**Ga.**, Macon—Electrical Fixtures.—Wm. J. Mountford Co., capital stock \$2000, inceptd. by Wm. J. Mountford and C. Barnett.

**Ga.**, Savannah—Dry Cleaning.—May Dry Cleaning Co., 302 Bull St., let contract Geo. F. Otto to erect \$2500 60x110-ft. building; machinery ordered. (Lately noted.)

**Ky.**, Louisville—Printing.—Baldwin Law Book Co., capital stock \$10,000, inceptd. by Edw. W. Hines, Rob F. Vaughan and W. E. Baldwin.

**La.**, Donaldsonville—Dry Dock.—H. C. Whiteman of Whiteman Bros. is interested in establishing drydock.

**La.**, Shreveport—Publishing.—Herald Publishing Co., capital \$5000, inceptd.; Geo. N. McPhee, Pres.; J. P. Olivari, V.P.; Chas. W. Barrell, Secy., Treas. and Gen. Mgr.

**La.**, Thibodaux—Elevator.—Percy-Lobdell Co. will build grain elevator and corn sheller.

**Mo.**, St. Louis—Railroad Ties and Supplies.—Central Tie Co., capital stock \$150,000, inceptd. by D. C. Bunfin, Ed Jacobs, Simon Jacobs and Roscoe Carney.

**N. C.**, Charlotte—Incinerator.—City let contract National Incinerator Co. at \$24,000 to build garbage incinerator; A. H. Wearn, City Clerk. (Lately noted.)

**N. C.**, Elizabeth City—Transportation.—Weekville Transportation Co., capital \$10,000, inceptd. by D. R. Scott, C. S. Parker and J. A. Parker.

**N. C.**, Monroe—Laundry.—Chas. Iceman will install laundry; ordered machinery.

**Okla.**, Checotah—Laundry.—Checotah Water, Light & Ice Co. will build steam laundry.

**S. C.**, Charleston—Creosoting.—Chamber of Commerce, A. V. Snell, Secy., interested in establishing of creosoting plant. (See Machinery Wanted.)

**S. C.**, Mt. Pleasant—Publishing.—Palmetto Publishing Corporation, capital stock \$20,000, inceptd.; Edw. Tiencken, Pres.; T. J. Hamlin, V.P.; W. E. Freeman, Secy.-Treas.; E. L. Baler, Mgr.; leased building; ordered presses; weekly paper and job printing.

**S. C.**, Sumter—Live Stock.—Harby-Epperson Live Stock Co., capital \$10,000, inceptd.; Geo. H. Epperson, Pres.; A. D. Harby, Secy.-Treas.

**Tex.**, San Angelo—Garbage Incinerator.—City will install garbage incinerator; purchased plant costing \$3000. Address City Engr.

**Tex.**, Waco—Engraving.—Waco Engraving Co., capital \$4500, inceptd. by G. W. Parke, J. C. Wheeler and Daniel Willett.

**Va.**, Staunton—Auto Transfer.—Staunton Automobile, Livery & Transfer Co., maximum capital \$25,000, inceptd.; Noble C. Williams, Jr., Pres. and Gen. Mgr.; T. M. Hoopes, Secy.-Treas.

**W. Va.**, Logan—Laundry, etc.—Model Laundry & Dry Cleaning Co. organized; F. S. Martin, Pres.; J. G. Gault, V.P.; Geo. E. Clark, Secy.; O. L. Gilbreath, Mgr. and Treas.; erect building; ordinary construction; cost \$2000; bids opened Oct. 1; lately noted inceptd., \$25,000 capital. (See Machinery Wanted.)

### MISCELLANEOUS FACTORIES

**Ala.**, Gadsden—Paper.—Alabama Pulp & Paper Co. organizing to build pulp and paper mills; C. W. Roberts, Secy., Chamber of

Commerce, wires Manufacturers Record: "Have not issued official statement regarding proposed paper mill we have located; mill will have \$1,000,000 capital, with capacity 60 lbs. per day. (Lately noted.)"

**Ala.**, Geneva—Turpentine, etc.—Gindele Rosin & Turpentine Co., capital stock \$20,000, inceptd. by Geo. A. Gindele, Thos. A. Dungan, Frank W. Watts and others, all of Chicago; purchased 10-acre site; establish plant to mfr. turpentine, rosin, tar, charcoal, etc.; daily capacity 16 cords wood. (Lately noted.)

**Ala.**, Geneva—Wood-waste Products.—American Wood Waste Co., capital stock \$100,000, inceptd. by Geo. A. Gindele, Thos. A. Dungan, Frank W. Watts and others, all of Chicago; will establish plants to utilize wood waste and allied products, pulp and paper mills, etc.

**Ark.**, Fort Smith—Sorghum.—Best-Clymer Mfg. Co., St. Louis, Mo., contemplates building sorghum mill.

**D. C.**, Washington—Olive Oil, etc.—Pompeian Co., 220 13th St. S. W., increased capital stock from \$500,000 to \$1,000,000.

**D. C.**, Washington—Rubber Stamps, etc.—Herman Baumgarten Co., 414 10th St. N. W., will have plans prepared by Cloughton West, 1416 Chapin St. N. W., Washington, for remodeling building at 13th and H Sts. N. W.

**Ga.**, Atlanta—Roofing.—W. L. Barnhart, 702 Empire Bldg., obtained patent on reinforced asphalt roofing (made on the building) and plans introduction of same.

**Ga.**, Tallapoosa—Glass.—W. H. Meacham of Chattanooga Glass Co., Alton Park, Tenn., purchased plant of Tallapoosa Glass Mfg. Co.

**Ky.**, Louisville—Paint.—Kentucky Paint & Glass Co. changed name to Kentucky Paint Mfg. Co. and increased capital stock from \$5000 to \$12,000; C. F. Wood, Pres.

**La.**, New Orleans—A. F. Stulds, care of Standard Chemical Co., 1802 Congress Ave., Houston, Tex., contemplates establishing manufacturing plant.

**La.**, New Orleans—Distillery.—Raleigh Co. organized to build distillery; Frank Elstein, Pres.; Louis Chaplain, V.P.; Harry S. Levy, Secy.-Treas.

**Md.**, Baltimore—Asphalt.—Patrick Flanagan & Sons, 120 E. Lexington St., purchased tract 533x500 ft. at Locust Point and contemplates building asphalt plant.

**Md.**, Baltimore—Asphalt, etc.—United States Asphalt Refining Co., foot Eutaw St., will enlarge plant; increase capacity 25 per cent.; present annual capacity, 70,000 tons asphalt and 400,000 bbls. oil.

**Md.**, Baltimore—Chemicals.—Mutual Chemical Co. of America, 1348 Block St., let contract Guarantee Construction Co., New York, to improve plant. (Lately noted.)

**Miss.**, Taylorsville—Lime.—C. F. Peterson and others interested in establishing lime plant; daily capacity 1000 bbls.

**Mo.**, Kansas City—Train Control.—Automatic Train Control Co., capital stock \$2,000,000, inceptd. by Carl Woods, E. E. Hairgrove and C. D. Dail.

**Mo.**, St. Louis—Syrup.—American Syrup & Product Co. will erect 2-story factory; cost \$8500.

**Mo.**, St. Louis—Butterine.—St. Louis Butterine Mfg. Co. inceptd. by Louis B. Nichols, Jr., Charles H. Nahr and G. C. McMillan; capital stock \$10,000.

**Mo.**, St. Louis—Creamery.—Lilly Creamery Co. inceptd. by Isabel Cunliff, Fred F. Lohman, Jr., and Andrew McLeod.

**Mo.**, St. Louis—Coffee.—Biston Coffee Co. inceptd. by Gus Biston, Jr., William L. Allen and Ferdinand A. Biston; capital stock \$60,000; leased 4-story brick building at 907-909 N. Broadway; remodel interior; ordered roasting and grinding machinery.

**N. C.**, Hendersonville—Creamery.—Blue Ridge Creamery, capital \$50,000, inceptd. by P. F. Patton and J. C. Morrow of Hendersonville and Curtis Bynum, Asheville.

**N. C.**, Lincolnton—Bed Rest.—Wayoco Mfg. Co. organized with C. W. Warlick, Pres. and Mgr.; R. T. Costner, Secy.-Treas.; purchased equipment to manufacture metal bed rest; capacity, 15 daily. (Lately noted incorporated, \$25,000 capital stock, under Miscellaneous Factories.)

**Okla.**, Hugo—Metal Polish, etc.—Oklahoma Electric Chemical Co. organized with J. T. Crow, Pres. and Treas.; J. J. McIntyre, Secy.; manufacture metal polishes, etc. (Lately noted inceptd., \$25,000 capital stock.)

**Okla.**, Oklahoma City—Ice-cream Cones.—Lanyon Cone & Mfg. Co. will enlarge plant; install 9 machines with daily capacity 75,000 cones; proposes to organize new company with \$20,000 capital stock; equipment ordered.

**S. C.**, Spartanburg—Medicine.—Southern Medicine Co. inceptd.; B. A. Lowe, Pres.

Secy.; J. H. Morgan, V.-P.; W. S. Lowe, Treas.

Tex., Allee-Creamery.—Allee Progressive Club is promoting establishment of co-operative creamery to cost \$5000.

Va., Martinsville.—Mirrors and Plate Glass. Company organized with A. D. Witten, Pres.; T. G. Burch, V.-P.; John W. Carter, Sr., Secy.; John W. Carter, Jr., Treas.

Va., South Boston.—Bed Springs and Mattresses.—R. S. Barbour, Box 286, contemplates mfg. of bed springs and mattresses. (See Machinery Wanted.)

Va., Vesuvius.—Plows.—Vesuvius Plow Works, W. F. Humphries, Secy., will rebuild plant lately burned. (See Machinery Wanted.)

Va., Williamsburg.—Overalls.—W. A. Bozarth purchased building; reported to erect additional story and equip as overall factory.

W. Va., Parkersburg.—Corrugated Paper, etc.—Parkersburg Corrugating Co., capital \$25,000, will incorporate; acquired building on 5th St. and will equip; purchased \$10,000 equipment; F. C. Goff, Mgr.

### MOTORS AND GARAGES

Ark., Little Rock.—H. Tysinger will build automobile park; brick, concrete and steel; fireproof; 28,000 sq. ft. floor space; cost \$10,000; vulcanizing plant in connection.

D. C., Washington.—Garage.—C. E. Meyers, 329 D St. N. W., will remodel building as garage; erect brick addition.

Fla., Kissimmee.—Garage.—Harry W. Thurman will build garage and laundry in connection with theater. (See Theaters.)

Md., Baltimore.—Garage.—Consolidated Gas Electric Light & Power Co., Lexington and Liberty Sts., let contract Singer-Pentz Co., 600 Equitable Bldg., Baltimore, to erect garage at West Arlington, 1 story; 35x101 ft.; brick; concrete and stone foundations; concrete floors. (Lately noted.)

Md., Federalburg.—Garage.—Harry N. Carroll and Sewell Noble sold site to Philadelphia capitalists on which to build garage.

N. C., Burlington.—Garage.—Burlington Motor Co., capital \$30,000, incorporated by R. J. Hall, G. M. Brooks and G. A. Kernodle.

Tex., Dallas.—Garage.—Ford Motor Car Co. let contract Brake & Brannum Construction Co., Fort Worth, to build assembling plant; 30x125 ft.; 4 stories and basement; steel reinforced concrete; cost \$175,000. (Previously noted.)

Tex., Honda.—Automobiles.—Honda Auto Sales Co., capital \$2000, incptd. by Claude W. Gilliam, Chas. E. Roberts and O. H. Miller. (Lately noted, under Clayworking Plants, at Tex., Fort Worth.)

Tex., Texarkana.—Motors.—Motor Mart, capital stock \$5000, incptd. by J. R. McCulloch, R. P. Wilson and B. C. Watts.

Va., Fredericksburg.—Garage.—J. McCalla Boulevard & Son will build garage.

Va., Norfolk.—Garage.—J. E. Hanrahan & Co. will erect brick addition to garage; cost \$3087.

### ROAD AND STREET WORK

Ala., Cullman.—Cullman County Comms. let contract E. M. Wheeler, Birmingham, to build 3 roads; issued \$100,000 of \$200,000 authorized bonds, which will provide for about 40 miles of roads. (Previously noted.)

Ala., Heflin.—Cibola county will grade, drain and surface with topsoil part of Heflin and Evans Bridge Rd.; expenditure, \$8000; W. S. Keller, State Highway Engr., Montgomery, Ala.; bids until Sept. 29. (See Machinery Wanted.)

Ala., Oneonta.—Blount County Comms. let contracts to improve sections of roads, each aggregating 2 and 3 mi.; G. W. Underwood, Springville, Ala., from Altoona to Sneads, 3 mi.; Mitchell Bros. of Oneonta from Blountsville to Cleveland; L. C. Pearson of Oneonta, Selville Rd.

Ark., Little Rock.—Road Dist. No. 7 of Pulaski County will construct roads from Granite Springs Pike south to county line on Sheridan Rd., and from Ironton to Arch St. Pike; length 8 mi. Address Dist. Comms.

Ark., Mountainburg.—Geo. G. Stockard and others will expend \$75,000 to construct automobile and wagon road from Fort Smith to Winslow, distance 40 mi.; also construct two 125-ft. steel bridges; construction by labor along route. (Lately noted.)

Fla., De Land.—S. D. Jordan, clerk, advises: Volusia county contemplates only repair road work in near future. (Lately noted to build 70 mi. road.)

Fla., Fort Myers.—Lee county defeated

\$200,000 bonds to improve roads and construct bridges. (Lately noted.)

Fla., Jacksonville.—City will pave Palmetto St. from Adams to Monroe St. Address The Mayor.

Fla., Lake City.—City let contract Webster & Baker, Palatka, Fla., for about 4000 sq. yds. cement sidewalks. (Lately noted.)

Fla., Pensacola.—Escambia county considering voting on \$1,500,000 bonds to construct roads; proposed to pave road from Pensacola to Flomaton, Ala., 44 mi., and 3 intersecting roads; use granite, brick or wood block. Address County Comms.

Fla., Sanford.—Seminole County Comms. let contract Hankinson & Hagler, Augusta, Ga., to furnish about 5,000,000 vitrified bricks for 25 mi. road; let construction contract to J. Y. Wilson, Jacksonville, and W. S. Hand, Sanford; material and construction cost about \$200,000; Engr., H. S. Jaudon Engineering Co., Savannah, Ga. (Lately noted.)

Fla., Tarpon Springs.—City votes Oct. 14 on \$25,000 bonds for street paving. Address The Mayor.

Fla., Wauchula.—DeSoto County Comms. will construct 3-mi. road, connecting Wauchula and Zolfo.

Ga., Albany.—City will construct 14,500 sq. yds. brick on concrete pavement; cost \$25,000; R. T. Edgerly, City Engr. (Lately noted.)

Ga., Atlanta.—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., will let contract to construct 4900 ft. 18x5 in. curb, 4900 ft. straight guttering, 6 ft. wide; 5600 sq. yds. 6-in. macadam paving, with or without tar binding; 2400 sq. yds. 18-in. tile sidewalk. (See Machinery Wanted.)

Ga., Atlanta.—Asa G. Candler, W. T. Ashford, Chas. P. Glover and others have signed agreement with Southern Ry. (B. Herman, Ch. Engr., Washington, D. C.) to extend Brookhaven Drive eastward from Peachtree St. for 3 mi. to Williams Mill Rd., and to construct subway under tracks; road to be 40 ft. wide; total cost \$34,000.

Ky., Louisville.—City let contract Bickel Asphalt & Paving Co., Louisville, to pave, with asphalt, portions of Barret Ave., Preston, Madison and 6th Sts. and Broadway; cost \$51,500.

Ky., Louisville.—City let contract Bickel Asphalt Paving Co., Louisville, at \$8000 to pave Clay St. from Jefferson to Walnut St. and from Madison St. to Broadway. (Lately noted.)

Ky., Whitesburg.—Town will improve streets. Address Town Clerk.

La., Baton Rouge.—Roads Dist. No. 1, East Baton Rouge parish, voted \$15,000 bonds to gravel road between Baton Rouge and Hope Villa. Address Police Jury. (Lately noted.)

La., Belmont.—W. E. Atkinson, State Highway Engr., 104 New Orleans Court Bldg., New Orleans, states Belmont-Sodus highway will be about 9 mi. long, 24 ft. wide between ditches; sand-clay construction; concrete bridges and culverts; cost \$1800 to \$2000 per mi.; 50 ft. right of way; work with State's and Dept's road outfit.

La., Homer.—Calhoun Parish Police Jury, J. E. Gandy, Pres., votes Oct. 14 on tax to build roads.

La., Lafayette.—Lafayette Parish Police Jury contemplates constructing 15 mi. gravel roads; parish to appropriate \$40,000 and State \$20,000.

La., Mansfield.—De Soto Parish Police Jury let contract Thos. Larkin, Sherman, Tex., at \$21,800 to build road from Mansfield to Benton, 14 mi.; contract includes concrete bridges.

La., Opelousas.—City contemplates paving Landry St. Address The Mayor.

La., Shreveport.—City will pave 30-ft. alley and approach to Red River traffic bridge between Spring and Commerce Sts. from Lake to Jones St.; brick; 2500 sq. yds.; L. H. Baker, Secy.-Treas.; bids received Sept. 23. (See Machinery Wanted.)

Md., Baltimore.—Paving Com., R. Keith Compton, Chrm., will pave with granite block President St., Contract No. 68, from Lancaster to Fawn Sts.; repaving, 5410 sq. yds.; new paving, 500 sq. yds.; bids until Sept. 24. (See Machinery Wanted.)

Md., Baltimore.—State Roads Com., Wm. L. Marcy, Secy., 601 Garrett Bldg., will build 2 sections State highway, 1.28 mi., as follows: Contract No. B-8, Baltimore City, 1 section Reisterstown Rd. from Elgin Ave. to Pulaski Circle, about .20 mi. (sheet asphalt and granite block); contract No. B-12, Baltimore county, 1 section along Frederick Rd. between St. Timothy's La. and Meloni Ave. through Catonsville, about .38 mi. concrete roadway or bituminous concrete; bids until Oct. 1. (See Machinery Wanted.)

Miss., Ashland.—Benton county will vote on \$7000 bonds to construct roads in Third Dist. Address County Comms.

Miss., Canton.—Madison County Comms. will issue \$50,000 bonds to construct roads.

Mo., St. Louis.—Board Public Improvements let following contracts to improve streets and alleys: Granite Bituminous Paving Co. at \$967.53; Webb-Kunze Construction Co. at \$417.75; Wm. R. Bush Construction Co. at \$3783; Ruecking Construction Co. at \$7249.34; Eyermann Construction Co. at \$7880.46; G. A. Heman at \$1717.63; Perkinson Bros. Construction Co. at \$1530.20.

N. C., Raleigh.—City let contract R. G. Lassiter, Oxford, N. C., to pave 30,000 to 40,000 sq. yds. street; James I. Johnson, Mayor. (Lately noted.)

N. C., Rockingham.—City let contract West Construction Co., Chattanooga, Tenn., for 25,000 sq. yds. asphaltic concrete paving; C. M. Furman, Jr., City Engr.

Okla., Wekiwa.—Comms. Wekiwa township of Tulsa county will issue \$16,000 bonds to construct road.

Tenn., Chattanooga.—Legislature will consider authorizing road district between Chattanooga and Knoxville, including 8 counties, and bond issue not to exceed \$1,500,000 to construct road between Chattanooga and Knoxville; Ben W. Hooper, Governor, Nashville.

Tex., Angleton.—Road Dists. Nos. 2, 3, 4, 5 and 6, Brazoria county, have about \$600,000 available to construct hard-surface roads; date of opening bids not set. Address County Comms. (Previously noted.)

Tex., Bay City.—Fifth Road Dist. of Matagorda County voted on \$60,000 bonds to construct roads. Address County Comms.

Tex., Belton.—Comms. Bell County Precinct No. 1 invite bids until Sept. 24 to grade and gravel roads; \$150,000 bonds authorized; maps and specifications on file with County Engr. W. P. Bullock. (Previously noted.)

Tex., Benham.—Fannin county contemplates voting \$250,000 bonds for road construction. Address County Comms.

Tex., Beaumont.—Jefferson county votes Oct. 15 on \$500,000 bonds to improve roads; Comms. agreed to shell Mansfield Ferry Rd., to cost \$15,000. Address County Comms.

Tex., Clarksville.—Red River county contemplates voting on \$200,000 bonds for road construction. Address County Comms.

Tex., Comanche.—Comanche county contemplates voting bonds for road construction. Address County Comms.

Tex., Corpus Christi.—Nueces county voted Sept. 2 on \$165,000 bonds for road construction. Address County Comms.

Tex., Dallas.—City will resurface 3800 sq. yds. Elm St. between Crowder and Mill Creek; cost \$6000.

Tex., Dallas.—City will lay cement sidewalks on Lancaster Ave.; 9424 sq. ft.

Tex., Eagle Pass.—Maverick county voted \$25,000 bonds to construct roads. Address County Comms.

Tex., Edna.—Jackson county votes Oct. 4 on bonds for road construction. Address County Comms.

Tex., Hallettsville.—Lavaca county contemplates voting on \$25,000 bonds for road construction. Address County Comms.

Tex., Kingsville.—City votes Sept. 27 on \$84,000 bonds for road and bridge improvements and sewer construction. Address The Mayor.

Tex., Mexia.—City voted on \$20,000 bonds to pave streets and sidewalks in business district. Address The Mayor.

Tex., Moscow.—Road Dist. No. 2, Polk county, voted \$40,000 bonds to construct roads. Address Dist. Comms.

Tex., Port Lavaca.—Calhoun county votes Sept. 29 on \$5000 bonds for road construction. Address County Comms.

Tex., San Antonio.—City will pave College St. between Navarro and Losoya Sts. with vitrified brick, crossroad wood block, bitulithic, rock asphalt or other permanent pavement; bids until Sept. 29; Fred Fries, City Clerk. (See Machinery Wanted.)

Tex., Waco.—McLennan county contemplates voting on bonds for road construction. Address County Comms.

Tex., Wharton.—Wharton county contemplates voting on \$250,000 bonds for road construction. Address County Comms.

Va., Farmville.—Prince Edward County Supvs. will construct 1-mi. concrete road south from Farmville; State Highway Commr., P. St. J. Wilson, Richmond, will supervise construction.

Va., Richmond.—City will grade Gilbert and Walker Sts. between Meadow St. and

William Byrd Park, and Addison St. south of Beverly St.; bids until Sept. 17; Chas. E. Bolling, City Engr. (See Machinery Wanted.)

W. Va., Benwood.—City will pave between tracks of Wheeling Traction Co. on Marshall St. in Benwood; 6000 ft.; 3000 yds. of paving; bids until Sept. 22; plans at offices of Mayor and C. C. Smith, Board of Trade Bldg., Wheeling, W. Va. (See Machinery Wanted.)

W. Va., Bluefield.—City votes Oct. 16 on \$125,000 bonds to improve streets, extend sewer system and provide additional fire apparatus; J. T. Akers, Aud.

W. Va., Parkersburg.—City let contract Citizens' Concrete Co., Parkersburg, at \$250 for concrete paving.

W. Va., Patterson, P. O. at Wheeling.—Town will pave Kruger St.; bids received until Sept. 18; Andrew J. Nelhouse, Recorder. (See Machinery Wanted.)

### SEWER CONSTRUCTION

D. C., Washington.—Dist. Comms. will construct sewers; bids until Sept. 18; specifications, etc., obtainable from Chief Clerk, Engr. Dept. (See Machinery Wanted.)

Fla., Plant City.—Board Public Works, J. L. Young, member of Com., will construct sanitary sewer system; 18,570 ft. 8-in., 9790 ft. 10-in., 1750 ft. 12-in. 6910 ft. 15-in. pipe, 30 manholes, 27 flush tanks and 2 septic tanks or settling basins; bids until Oct. 10. (See Machinery Wanted.)

Fla., Tarpon Springs.—City votes Oct. 14 on \$15,000 bonds for sewer and water extensions. Address The Mayor.

Fla., Wauchula.—City considering voting on \$50,000 bonds to construct sewer system and water-works. Address The Mayor.

Ga., Atlanta.—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., will construct 2800 ft. sewers. (See Machinery Wanted.)

Ga., Arlington.—City will vote on bonds to construct sewer system. Address The Mayor.

Ga., Statesboro.—City asks bids until Oct. 15 to construct proposed sanitary sewer system; about 13 mi. pipe 6 to 20 in. diam., septic tanks, sludge beds, etc.; F. B. Groover, Engr. (See Machinery Wanted.)

Ky., Marion.—City will vote in November on \$20,000 bonds for sewer system. Address The Mayor.

La., Shreveport.—City will construct extension to Southern Ave. storm sewer; bids received Sept. 23; L. H. Baker, Secy.-Treas. (See Machinery Wanted.)

Md., Baltimore.—City let contract McCarthy & O'Herron, 14 W. Oliver St., Baltimore, at \$93,916.75, to construct storm-water drains, contract No. 30, and lateral sewers and house connections in Districts Nos. 21A and 22A, sanitary contract No. 118; former will require 5715 lin. ft. masonry drain, 1150 lin. ft. terra-cotta pipe drains and sewers and 14 manholes; latter, 13,500 lin. ft. vitrified pipe house connections and 13,000 lin. ft. vitrified pipe sewer 8 to 15 in. in diameter; Charles England, Chrm. Sewerage Com., American Bldg. (Call for bids lately noted.)

Md., Baltimore.—Sewerage Com., Chas. England, Chrm., 904 American Bldg., construct certain miscellaneous sanitary lateral sewers, contract No. 121; 14,000 lin. ft. vitrified pipe sewer, 8 to 15 in. in diameter; 17,000 lin. ft. vitrified pipe connections; bids at City Register's office, City Hall, until Sept. 24; Calvin W. Hendrick, Ch. Engr. (See Machinery Wanted.)

Mo., Pittsburg.—City Comms. let contract E. G. Fikes, Tulsa, Okla., at \$33,955.28 to construct storm-sewer system.

N. C., Dunn.—Sewerage Committee asks bids, received until Sept. 29, for building reinforced concrete Imhoff tank about 30 ft. square by 25 ft. deep; Gilbert C. White, Engr.; sewer construction lately noted. (See Machinery Wanted.)

Tenn., Chattanooga.—Dept. Streets and Sewers, A. N. Sloan, Commr., construct brick main sewer on 14th St. from Maple St. to Tennessee River, and lateral or tributary sewers on Ash, Sycamore, Elm, Ross, 12th and 13th Sts.; bids received until Sept. 18. (See Machinery Wanted.)

Tex., Kingsville.—City votes Sept. 27 on \$84,000 bonds for sewer construction and road and bridge improvements. Address The Mayor.

W. Va., Bluefield.—City votes Oct. 16 on \$125,000 bonds to extend sewer system, improve streets and provide additional fire apparatus; J. T. Akers, Aud. (Lately noted.)

W. Va., Huntington.—City let contracts to construct various sewers to L. J. Gillespie, Jack Ulom, Amos Trainor and Chas. M.



Scanlon; total aggregates 7021 lin. ft. 12 in., 380 lin. ft. 10 in., 1080 lin. ft. 24 in. and 496 lin. ft. 18 in. tile sewers; cost \$11,000; A. P. Maupin, City Engr. (Call for bids lately noted.)

### TELEPHONE SYSTEMS

Ala., Foley.—South Baldwin Telephone Co., capital stock \$5000, will extend trunk and lateral lines; construct about 12 mi. (Baldwin County Producers Corp. lately noted purchasing system.)

Ky., Mt. Vernon.—Mt. Vernon Telephone Co., capital stock \$5000, purchased Rockcastle Home Telephone Co. plant. (Lately noted incorporated by James Maret and others.)

Okl., Sand Spring.—Sand Springs Telephone Co. will build exchange and probably extend system.

### TEXTILE MILLS

Ga., Cedar-town.—Cotton Rugs.—C. R. Borders, Box 35, plans to establish mill for manufacturing cotton rugs; has not purchased machinery. (See Machinery Wanted.)

Ga., Egan.—Sheeting, etc.—Martel Mfg. Co. will add 4 spinning frames and 1 warper; has let contract.

Ga., Rome.—Hosiery.—Rome Hosiery Mills will build 2-story addition costing \$7000; will add new machinery; has 29 knitters, dyeing equipment, finishing machinery, etc.

N. C., Concord.—Cotton Yarn.—Roberta Mills will, it is reported, rebuild plant previously burned, installing 3000 spindles and having P. M. Keller in charge.

Okl., Oklahoma City.—Hosiery.—Oklahoma Hosiery Co. organized with T. H. Lindley Pres., J. B. Barker Supt.; will install 100 automatic knitters for daily capacity 400 doz. pairs women's hosiery. (Lately noted inceptd., capital stock \$25,000.)

S. C., Gaffney.—Damask, etc.—Irene Mills will build 68-ft. addition costing probably \$7500.

S. C., Greenville.—Sheetings, etc.—Conestee Mills will, it is reported, install automatic looms to replace other weaving machinery; now operating 16,680 spindles, 371 looms, etc.

Tenn., Etowah.—Hosiery.—R. J. Fisher, Athens, Tenn., will not establish mill lately reported. (See Tenn., Riceville.)

Tenn., Morristown.—Hosiery.—Holston Mfg. Co., Lenoir City, will lease building to be erected by Morristown Improvement Co.; 206x61-ft. mill-construction building with gravel roof; local contractor; Holston company will install 250 knitters, electric-power equipment, etc.; total cost plant, \$60,000. (Lately noted.)

Tenn., Riceville.—Hosiery.—Riceville Knitting Mills, R. J. Fisher, Mgr., Athens, Tenn., will erect 62x32-ft. brick building; install knitting machinery for daily capacity 300 dozen pairs hosiery. This plant in lieu of Etowah (Tenn.) plant recently reported planned by Mr. Fisher. (Lately noted incorporated, capital stock \$25,000.)

Va., Culpeper.—Silk.—Culpeper Silk Mills organized with James Rigby, Jr., Pres., Paterson, N. J.; Charles Forbes, V.-P.; L. F. Smith, Secy., both of Culpeper; reports state company succeeds Rigby Silk Co. of Paterson and will establish plant. (Lately noted inceptd., capital stock \$50,000.)

### WATER-POWER DEVELOPMENTS

Mo., Linn Creek.—Niangua Heights Development Co., R. G. Scott & Son, Engrs., let contract to construct cement dam and frame power-house for hydro-electric plant at mouth of Linn Creek, developing 300 H. P.; transmit electricity for lighting, power and pumping in park; cost about \$5000; has not purchased turbine wheel, dynamo, piping, etc. Previously noted organized, etc. (See Machinery Wanted.)

S. C., Laurens.—Sullivan Power Co. completed hydro-electric plant recently under construction; develops 700 H. P.; cost \$100,000; Pres., N. B. Dial; engr., J. E. Sirrine, Greenville, S. C. (Heretofore noted as Sullivan River Power Co.)

Tex., Grand Falls.—Grand Falls Water & Development Co. organized with John H. Boogher Pres., A. W. Dunn Secy., W. A. White Supt.; by gravity is operating dam, headgate and canal; irrigating 30,000 acres; considering construction of reservoir; total cost plant, \$300,000. (Lately noted inceptd.)

Va., Norton.—Chas. F. Hagan, Bristol, Tenn., contemplates constructing hydro-electric plant for use in development of coal lands. (T. F. Suthers previously noted interested.)

W. Va., Bluefield.—Appalachian Power Co., F. J. Hobbs, Treas., care Wm. P. Bonbright & Co., 14 Wall St., New York, advises Manu-

facturers Record: Company authorized \$3,000,000 notes to retire floating debt and outstanding issue notes; will complete construction under way and undertake contemplated addition during next 3 years; has 2 hydro-electric plants on New River, developing 29,000 H. P., 237 mi. transmission system, etc.; plans 2 other developments furnishing 53,000 H. P. (Lately noted proposing bonds.)

### WATER-WORKS

Ala., Roanoke.—City will issue \$20,000 water-works and electric-light bonds; W. Y. Chewing, Mayor.

Ark., Eureka Springs.—Water-Works Com., L. W. McCrory, Chrmn., will expend \$100,000 to \$150,000 to increase water supply; plans and surveys not made. (Lately noted considering piping Blue Springs water to city.)

Ark., Fort Smith.—City will construct dam across Poteau River to protect water supply from contamination; cost \$18,000; plans by Engr. Kierstedt; W. H. Bruce, Supt. Water Dept.

Fla., Tarpon Springs.—City votes Oct. 11 on \$15,000 bonds for water and sewer extensions. Address The Mayor.

Fla., Wauchula.—City considering voting on \$50,000 bonds to construct water-works and sewer system. Address The Mayor.

Ga., Atlanta.—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., will construct 2800 ft. water main. (See Machinery Wanted.)

Ky., Marion.—City will vote in November on \$25,000 bonds for water-works. Address The Mayor.

La., Crowley.—City will drill additional well and build emergency reservoir. Address The Mayor.

La., Ville Platte.—City voted bonds to construct water-works; W. B. Roberts, Consult. Engr.

Md., Baltimore.—Board of Awards opened bids for superstructure of bridge No. 2 across Gunpowder River; McClintic-Marshall Construction Co., Pittsburgh, Pa., low bidder at \$86,750; riveted steel truss highway structure; 3 spans, 297 ft. each; 2 girder approach spans, 27 ft. each; substructure contracts previously noted let to Stewart-Jones Co., Rock Hill, S. C., and Claiborne, Johnston & Co., 901 Calvert Bldg., Baltimore; Ezra B. Whitman, Water Engr., City Hall. (Bids lately noted.)

Mo., Butler.—Chas. W. Stephenson, Kansas City, purchased Butler water system for \$32,000.

Mo., Hannibal.—City will purchase Hannibal Water Co.'s water system for \$300,000 and expend \$60,000 for improvements. Address The Mayor. (Lately noted.)

Mo., Lees Summit.—Interurban Water Co., Independence, Mo., contemplates constructing water-pipe line to Lees Summit; proposes to build reservoir with capacity 500,000 gals., erect standpipe 110 ft. high, lay distributing system and install 85 hydrants.

Mo., Neosho.—Special Committee recommends \$60,000 expenditure to improve water-works; C. H. Sexton, City Engr.

Mo., St. Louis.—Board Public Improvements let contract to Prendergast-Clark Construction Co., St. Louis, at \$48,732 to construct gate chamber in clear well, cover for wet well in No. 1 engine-house, 7-ft. circular conduit from new gate chamber to drawing chamber at basin and 7-ft. circular conduits from new gate chamber to wet wells in Nos. 1 and 2 engine-houses at Bissell's Point.

N. C., Cherryville.—City will construct water-works, including laying 5 mi. pipe, erecting pumping station, steel tank and tower, construct reservoir, drill deep wells, install electric-driven pumping machinery, air compressors, etc.; cost \$25,000; bids until Sept. 30; J. Newton Johnson, Engr., Box 165, McCall, S. C.; J. B. Houser, Mayor. (See Machinery Wanted.)

N. C., Salisbury.—City formulating plans to increase water supply; may eventually construct system to Yadkin River, 4 mi., to cost \$125,000. Address The Mayor.

N. C., Winston-Salem.—Water Com. let contract to furnish at Salem pumping station cross combination Corliss pumping engine with daily capacity 2,000,000 gals. and low-head pumping unit of steam turbine type to pump raw water to coagulating basin; Fogle Bros. Co., Winston-Salem, lowest bidder at \$5100 to erect additional pumping-room, brick, with steel girders, 40x50 ft.

Okl., Oklahoma City.—City will install pump; daily capacity, 3,000,000 gals.; City Clerk invites bids.

Tenn., Columbia.—City voted \$100,000 bonds to purchase Columbia Water & Light Co. plant. Address The Mayor. (Lately noted.)

Tex., Beaumont.—Emmett A. Fletcher, Mayor, recommends to City Council construction of water-works; considering \$500,000 bond issue.

Tex., Beeville.—Beeville Power & Light Co., J. W. Greer, Gen. Mgr., organized; \$150,000 capital; to furnish water service, etc., for town and probably surrounding towns. (See Electric Plants.)

Tex., Belton.—City let contract H. L. Karnes & Son, Belton, at \$3360.21 to build pumping station; concrete and brick; 61x27½ ft.; C. E. Leonard, Engr. (Lately noted.)

Tex., Commerce.—City contemplates expending \$10,000 to construct pumping station and additional storage reservoir, C. J. Debenport, Mayor.

Tex., Rosenberg.—City votes Oct. 16 on \$31,000 bonds to construct water-works; Randall-Lovegrove-Wyman, Engrs., Union National Bank Bldg., Houston, Tex. (Lately noted.)

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will install water-works, etc. (See Land Developments and Machinery Wanted.)

Tex., Somerville.—City votes Oct. 9 on \$10,000 bonds to construct water-works. Address The Mayor. (Lately noted.)

Va., Amherst.—City votes Sept. 23 on \$10,000 bonds for water-works and electric-light plant. Address The Mayor. (Lately noted.)

Va., Millboro.—Millboro Lumber Co., J. M. Murdock, Pres., Johnstown, Pa., will construct water system, etc. (See Lumber Mfg. Plants.)

Va., Richmond.—E. E. Davis, Supt. Water-works, will prepare plans for extending water system to include North Richmond, Chestnut Hill, Highland Park, Barton Heights, Brookland, Laburnum and Ginter Park; estimated cost \$1,000,000.

### WOODWORKING PLANTS

Fla., Jacksonville.—Coffins, etc.—Excelsior Mfg. Co., capital \$50,000, incorporated; L. T. Gregory, Pres.-Treas.; M. L. Brown, V.-P.; Wm. S. Gregory, Secy.

### BURNED

Ala., Dothan.—Houston Guano Co.'s plant; loss \$25,000.

Fla., Paxton.—Florida Cypress Co.'s dry-kiln.

Ga., Quitman.—Interstate Lumber Co.'s shingle and planing mill.

Ky., Greenville.—A. E. Scott's store and dwelling; loss \$7000.

Ky., Rochester.—Green River Bank, J. A. Kennamoth's store and warehouse; Hayes Bros. Dry Goods Co.'s store; Meyers Drug Co.'s store; loss \$15,000 to \$30,000.

La., Shreveport.—Liederkrantz clubhouse; loss \$5000.

Md., Baltimore.—Dr. Ambrose Hill's residence, 704 Pen Lucy Ave.; loss about \$15,000.

Md., Baltimore.—Ingram Bldg. at Hanover and Lombard Sts., including plant of Goodman Hat Co. and M. Stein's clothing factory; loss \$40,000 to \$50,000.

Md., Berlin.—The Park Hotel, Thos. T. Savage, Prop.; loss \$12,500.

Md., Riverview.—Amusement buildings at Riverview, Michael J. Fitzsimmons, Mgr., 1906 W. Fayette St., Baltimore; loss \$3500.

Md., Pocomoke City.—James T. Young & Sons' lumber plant; loss \$26,000.

Miss., Mcayune.—Cybur Lumber Co.'s planing mill and drykiln.

Miss., Tuscola.—Public school. Address The Mayor.

Mo., Eureka.—William Shields' dairy; loss \$10,000.

Mo., Webb City.—Walter Spurgin's 3 buildings; E. Palmer's building.

Okl., Chickasha.—Chickasha Garage; Mr. Kimbro, Mgr.

S. C., Columbia.—Portion Columbia Hotel building occupied by Lorick & Lawrence.

S. C., Greenville.—Duckett & Russell's store; loss \$10,000.

S. C., Moore.—J. H. Walden's store; loss \$3000.

Tenn., Elizabethton.—National Bauxite Co.'s dwelling and office; loss \$3000 to \$4000.

Tenn., Friendship.—Baptist Church. Address The Pastor.

Tenn., Jasper.—A. L. Roverson's residence.

Tenn., Rutledge.—Joe Gunn's planing mill at Rutledge Falls; loss \$5000.

Tenn., Nashville.—J. C. Barnes' building 317 Second Ave.; loss \$5000.

Tex., Beaumont.—Jossey-Miller Co.'s grain mill and elevator; loss \$50,000.

Tex., Beaumont.—Magnolia Petroleum Co.'s machine and carpenter shops; loss \$50,000; main offices Houston, Tex.

Tex., Dallas.—Dallas Macaroni & Paste Co.'s plant damaged.

Tex., Dublin.—M. D. Gallagher's residence; loss \$6000 to \$7000.

Tex., Hallettsville.—Henry Hinrichs' gin; loss \$6000.

Tex., Haskell.—J. M. Whitman's residence; loss \$4500.

Tex., North Zulch.—Farmers' Union warehouse.

Tex., Pearsall.—H. A. Mercer's store.

Tex., Pearsall.—King & Sons' Mercantile Co.'s store; loss \$5000.

Tex., Tyler.—W. A. Farr's gin; loss \$1300.

Tex., Velasco.—Velasco Power Co.'s gin; loss \$3000.

Tex., Waxahachie.—Dr. D. G. Thompson's building, loss \$3000; R. Boehle's building, loss \$3000.

Tex., Whitewright.—Public school; loss \$25,000. Address The Mayor.

Va., Buchanan.—Dr. R. H. Latane's building, occupied by J. L. Garland and W. R. West.

Va., Richmond.—Wm. H. Minor's residence at West Brooke; loss \$10,000.

W. Va., Grafton.—Columbia Tile Co.'s plant; loss \$100,000.

### DAMAGED BY STORM

N. C., Washington.—James Ellison & Co.'s store was not damaged by storm as recently reported.

N. C., Washington.—Washington Light & Water Co. states plant was not damaged by storm. (Recent report incorrect.)

Tex., Van Horn.—Two Culberson county bridges; loss \$3000. Address County Commrs.

### WRECKED BY EXPLOSION

W. Va., Nemours.—Corning Mill No. 1 of Dupont Powder Mills.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### APARTMENT-HOUSES

Ky., Louisville.—J. J. Gaffney will erect apartment-house Guthrie St.; 140x50 ft.; 32 apartments; restaurant to seat 125 people; several stores; concrete and brick construction; cost \$100,000; plans by owner. (Previously noted.)

Mo., St. Louis.—F. Ruprecht will erect 2-story tenement-house 8319 S. Broadway; cost \$5000.

Mo., St. Louis.—Fred Lalla will erect 2-story tenement-house 3618 Minnesota St.; cost \$4200.

Mo., St. Louis.—Lindell Fair Grounds Realty Co. will erect two 2-story tenements 3000-02 Palm St.; cost \$3000.

Mo., St. Louis.—Fred W. Benz will erect 2-story tenement-house 5659 Page St.; cost \$2500.

Mo., St. Louis.—Minnie L. Rasch will erect 2-story tenement-house 3256-58 Compton St.; cost \$5000.

Mo., St. Louis.—Theo. Degenhardt will erect 2-story tenement-house 3650-50A Minnesota St.; cost \$4500.

Mo., St. Louis.—Herman Runge will erect 2-story tenement-house 3628 Bamberger St.; cost \$3000.

Mo., St. Louis.—Stanford Investment Co. will erect three 2-story tenements 5781-85 Kingsbury St.; cost \$13,500.

Mo., St. Louis.—F. Benderville will erect 2-story tenement-house 3553 Shaw Ave.; cost \$5200.

Mo., St. Louis.—Henry Beetz will erect 2-story tenement-house 2008-10 Russell Ave.; cost \$5200.

Mo., St. Louis.—Chas. Boehne will erect two 2-story tenements 2301-07 Angelica St.; cost \$10,000.

Okl., Tulsa.—J. B. S. Gallais will erect apartment-house S. Elgin Ave.; frame; 2 stories; cost \$5000.

S. C., Charleston.—J. D. Newcomer, Archt.,

receives bids until Oct. 7 to remodel building for apartments for Rutherford Apartments, Inc. (See Stores.)

S. C., Columbia.—Southern Scale & Fixture Co. will erect business and apartment building. (See Stores.)

Tex., Dallas.—Sam Lobello will erect 2-story brick flat 423 Elm St.; cost \$5550.

### ASSOCIATION AND FRATERNAL

Ky., Carlisle.—Daugherty Lodge No. 65, Ancient Free and Accepted Masons, is having plans prepared by G. A. Duncan, Lexington, Ky., for business building, Lyric Theater and Masonic Temple. (Lately noted.)

La., Lake Charles.—Odd Fellows' Hall Association, G. W. King, Prest., will not erect building as lately reported.

N. C., Spencer.—Southern Ry. Co., B. Herman, Ch. Engr., 1300 Pennsylvania Ave., Washington, D. C., will improve building for Y. M. C. A.; convert auditorium on second floor into 6 bedrooms, extend lunch counter 12 ft., install 900 sq. ft. quarry floor tile and 100 sq. yds. linoleum floor covering; work done by company's force.

N. C., Wake Forest.—Euzellam and Philamathesian Literary societies of Wake Forest College will erect society hall.

Okla., Tulsa.—Y. M. C. A. will conduct campaign Nov. 17-27 for \$100,000 to erect building.

Tenn., Johnson City.—Benevolent and Protective Order of Elks, W. W. Miller, Chmn. building committee, invites architects to submit plans for 4-story 50x100-ft. fireproof building; cost \$30,000. (Lately noted.)

Tex., Galveston.—Scottish Rite Temple Assn. opens bids Oct. 20 to erect addition to and remodel building; addition, 27x60 ft.; 2 stories; billiard-room first floor; lodge-room second floor; brick and wood construction; Rector gas heating; electric wiring and fixtures; tar and gravel roof; marble staircase; tapestry brick fireplace; mahogany wood trimmings in reading-room; white oak floors; leaded and art glass; cost \$60,000; plans by A. J. Bellis, 1403 23d St., to whom proposals may be addressed. (Lately noted.)

Va., Roanoke.—Y. M. C. A. will erect building Church and Commerce Sts.; 5 stories and basement; swimming pool, gymnasium, etc.; L. E. Jallade, 37 Liberty St., New York, and H. Miller, Roanoke, Assoc. Archts. (Previously noted.)

### BANK AND OFFICE

Ark., Norfolk.—Citizens' Bank will erect building; 1 story; pressed brick.

Fla., Jacksonville.—Florida Fire & Casualty Insurance Co. of Jacksonville purchased building Newman and Forsyth Sts. and will expend \$25,000 to \$30,000 to remodel for offices.

Fla., Jacksonville.—Mills-Wood Investment Co. Inceptd.; Chas. D. Mills, Prest.; C. M. Fuller, V. P.; F. E. Wood, Secy.-Treas.; will erect office building Adams St.; at least 5 stories; steel and reinforced concrete; fireproof; cost \$75,000 to \$100,000.

Fla., Zephyrhills.—Zephyrhills Colony Co., A. E. Stebbins, Prest., contemplates erecting office building.

Ga., Savannah.—I. Lavensky will erect store and office building. (See Stores.)

La., Houma.—Bank of Terrebonne has plans by Favrot & Livaudais, New Orleans, for bank building; 25x60 ft.; ordinary construction; steam heat; composition roof; cost \$11,000.

Mo., Kansas City.—Bay State Land Co. will erect 4-story office and store building 222-28 Main St.; reinforced concrete; fireproof; terra-cotta exterior; marble interior finish; cost \$30,000; plans to erect 3 additional stories later; Root & Slemans, Archts., Kansas City.

N. C., Asheville.—J. Rush Oates contemplates erecting 3 additional stories to Legal Bldg.

N. C., Durham.—Citizens' National Bank is having plans prepared by Ellicott & Ensmart, Union Trust Bldg., Baltimore, Md., for bank building; 1 story; about 32x62 ft.; limestone, terra-cotta and brick; hot-water heat; electric lights. (Previously noted.)

N. C., Monroe.—Icemore Mills will erect office.

Tex., Beaumont.—City, J. G. Sutton, Secy., will erect office building, etc. (See City and County.)

Tex., Gonzales.—Gonzales Water-works Co. will erect office and warehouse building; 2 stories; brick; frontage 111 ft.

### CHURCHES

Ala., Ensley.—Grace Presbyterian Church, Rev. L. E. Brubaker, pastor, has plans by H. D. Breeding, Watts Bldg., Birmingham, for building; 40x50 ft.; brick and stone; furnace; electric lighting; slate or tile roof; cost \$10,000; day labor. (Lately noted.)

Ark., Everton.—Christian church will erect building; L. B. Killbrew and George Blair, building committee.

Fla., Coconut Grove.—Christian Science Church has plans by August Geiger, Miami, for building; Grecian style; concrete and plaster; white tiled roof; main auditorium to seat 300; cost \$4500.

Fla., Miami.—First Christian Church Society, Rev. I. E. Adams, pastor, plans to erect building Ave. G and 12th St.; lower floor for auditorium; 50x100 ft., to seat, with balconies, 1200; dome; cost at least \$40,000.

Fla., Zephyrhills.—First Methodist Church, J. P. Stewart, Chmn. Building Com., will expend \$6000 to erect building; wood; veneer brick. (Lately noted.)

Ky., Fort Thomas.—Catholic church (Rev. Camillus P. Maes, bishop of diocese, Covington, Ky., interested) will erect building Ft. Thomas Ave. and Hills Ct.; cost about \$100,000.

Ky., Madisonville.—Episcopal Church will erect building; Rev. C. G. Abbott, Hopkinsville, Ky., is interested.

La., New Orleans.—Christian Science Church is having plans prepared for church Garfield and Nashville Aves.; buff brick; white stone trimmings; 4 large white marble columns; cost \$40,000. Address The Reader.

Md., Chase.—Catholic Church is having plans prepared by O. B. Wight, Munsey Bldg., Baltimore, for building; brick; cost \$15,000.

Md., Chesapeake City.—Summit Bridge Methodist Church has plans for building. Address The Pastor.

N. C., Albemarle.—First Baptist Church will erect building; colonial style; 92x120 ft.; cost \$25,000; J. M. McMichael, Archt., Charlotte.

N. C., Washington.—Christian Church, Rev. R. E. Hope, pastor, will select architect in next 90 days for building. (Lately noted.)

S. C., Ebenezer.—Pisgah Methodist Church will erect building; frame; 2 towers and entrance; 5 classrooms; rolling partitions; hot-air heat; cost \$7000; L. McD. Hicks, Archt., Florence.

Tenn., Knoxville.—St. John's Episcopal Church will erect marble chapel; L. C. Waters, Archt., Knoxville.

Tenn., Memphis.—Tabernacle Baptist Church will erect building Lauderdale St. and Parkway; cost \$10,000. Address The Pastor.

Tex., Dallas.—Central Presbyterian Church, Rev. J. Frank Smith, pastor, is having plans prepared by C. D. Hill & Co., Dallas, for City Temple, Bryan and Harwood Sts.; cost \$125,000.

Tex., Franklin.—Baptist church, Rev. I. N. Langston, pastor, has plans by Wayne Patterson, Temple, Tex., for building; 40x65 ft.; fireproof construction; steam heat; electric lighting; cost \$10,000; bids opened Oct. 15. (Lately noted.)

Tex., Jacksonville.—First Baptist Church will erect building; cost \$12,000. Address The Pastor.

Tex., Lockhart.—German Lutheran Congregation, Rev. Arthur Koerner, Pastor, Box 95, will expend \$3000 to erect 36x60-ft. building. (Lately noted.)

Va., Hampton.—Hampton Presbyterian Church will erect Sunday-school building. Address The Pastor.

Va., Suffolk.—Main Street Methodist Episcopal Church South has plans by Neff & Thompson, Norfolk, for building and Sunday-school room; 60x70 feet; seating capacity Sunday-school room, 600; brick; steam heat; electric lighting; tile roof; cost \$40,000; Jas. S. McLeomore, Chmn. Bldg. Com. (Previously noted.)

### CITY AND COUNTY

Ala., Birmingham.—Stables.—City Com., Culpeper Exum, Prest., appropriated \$3000 to erect city stables.

Ala., Selma.—Jail.—Dallas County Comms. will erect new jail or repair present structure; S. F. Houston and Julien Smith, jail committee.

Fla., Bartow.—Jail.—Polk County Comms. plan to erect jail to accommodate 100 prisoners.

Fla., Fort Lauderdale.—City Hall.—City voted bond issue to erect city hall. Address The Mayor.

Fla., Tampa.—City Hall.—Bd. Pub. Wrks. receives competitive plans from architects for city hall until Dec. 2; copy of program governing contest obtainable on application to Allen Thomas, clerk; D. B. McKay, Chmn. (Lately noted.)

Ga., Atlanta.—Refreshment.—Park Board, J. O. Cochran, Prest., rejected all bids to erect public comfort and refreshment building in Grant Park and will call for new bids; Hal Hentz, Archt., Atlanta. (Lately noted.)

Md., Baltimore.—Library.—Enoch Pratt Free Library, B. C. Steiner, librarian, Mulberry St. near Cathedral St., receives bids until Sept. 22 to erect library North Ave. near Bentalou St.; brick; steam heat; electric lights; cost about \$25,000; contractors estimating; F. E. Tobe, 2403 W. North Ave.; Edw. Watters & Co., 509 N. Charles St.; Blake & Engle, Law Bldg.; Willard E. Harn Co., 213 N. Calvert St.; B. F. Bennett Building Co., 123 S. Howard St.; J. Appleton Wilson, Archt., 800 Law Bldg. (Previously noted.)

Md., Cumberland.—Police Station.—City will receive bids to erect police station; plans and specifications at office Wright Butler, Archt., Third National Bank Bldg.

Md., Ocean City.—City Hall.—City will not erect city hall. (Late report incorrect.)

Mo., Cartersville.—City Hall.—City has plans by C. W. Stine, Webb City, Mo., for city hall; 2 stories; 40x70 ft.; A. L. Stalter, Mayor.

S. C., Gaffney.—Library.—City rejected all bids to erect Carnegie library and will receive new bids; 2 stories; brick; cost about \$7500; Hamby & Rorke, Archts., Columbia. (Lately noted.)

Tenn., Chattanooga.—Community-house.—J. H. Warner, Commr. Park and Public Utilities, considering plans for community-house Boynton Park; probably stucco; auditorium 25x36 ft.; 4-story and 2-story towers; cost about \$18,000.

Tex., Abilene.—Hospital.—City and Taylor County Comms. plan to erect joint city and county hospital.

Tex., Beaumont.—Warehouse, etc.—City, J. G. Sutton, Secy., will erect 5-room cottage, office building, warehouse, 9 cattle pens and runways at abattoir site; Babin & Beck, Archts., Beaumont.

Tex., Franklin.—Library.—City will expend \$10,000 to erect library; 27x64 ft.; ordinary construction; metal tile roof; plans by Wayne Patterson, Temple, Tex.; bids opened Sept. 15; proposals may be addressed to E. A. Decherd. (Lately noted.)

Va., Bristol.—Jail.—City will let contract Sept. 20 for steel work for jail, for which Kingsolver & Owens have general contract; Pauly Jail Bldg. Co., St. Louis, is lowest bidder; C. B. Kearfott, Archt., State St. (Lately noted.)

Va., Richmond.—Market.—Administrative Board has plans by Carnel & Johnston for First Market; 1 story; reinforced concrete, brick and steel; 53.5x33.11 ft.; open arcade along Franklin St. next to main building; chief entrance on Main St. flanked by 2 stories; cost \$43,000. W. W. Dunford, clerk of board, receives bids until Oct. 2; plans and specifications at architects' office, 409 Old Dominion Trust Co. Bld. (Lately noted.)

### COURTHOUSES

La., Oberlin.—Police Jury, Allen parish, postponed date of letting contract to erect courthouse until Jan. 1; plans by Favrot & Livaudais, Perrin Bldg., New Orleans. (Lately noted to open bids Sept. 1.)

W. Va., Point Pleasant.—Mason county voted \$75,000 bonds to erect courthouse. Address County Comms. (Lately noted.)

### DWELLINGS

Ala., Birmingham.—Frank Nelson, Jr., will erect addition to residence Niazuma and Iroquois Sts.; cost \$10,000.

Ala., Birmingham.—Hudson Improvement Co., B. B. Hudson, Treas., will erect several dwellings. (See Land Developments.)

D. C., Washington.—Chas. W. King, 925 New York Ave., has plans by Nicholas T. Haller, Corcoran Bldg., for nine 2-story brick dwellings 2253-69 Sherman Ave.; cost \$18,000.

D. C., Washington.—Sarah B. Miller, 3155 Highland Ave., will erect six 2-story brick dwellings 811-21 West Virginia Ave. N. E.; cost \$6000.

D. C., Washington.—F. R. Gordon, 317-18 Colorado Bldg., will erect 2-story frame dwelling 3604 McKinley St.; cost \$4250.

Ga., Atlanta.—McD. Baldwin will erect 2-story frame dwelling 14 Severn St.; cost \$4000; day labor.

Ga., Atlanta.—J. B. Hightower will probably erect residence Fairview Rd., Druid Hills.

Ga., Augusta.—Mrs. B. F. Brown will remodel residence 411 Walker St.; cost \$3000.

Ga., Savannah.—J. W. Smith will erect residence 35th St.; 2 stories; frame.

Ky., Louisville.—L. Jacobson will erect 10 frame dwellings 1st St.; cost \$25,000.

Ky., Louisville.—J. A. Seebold will erect frame dwelling 2324 Bonnycastle St.; cost \$3000.

Ky., Louisville.—Matt O'Doherty will erect residence Hill Top Rd., Castlewood.

Ky., Louisville.—A. C. Popham will erect residence Castlewood.

Ky., Louisville.—W. J. Welch will erect residence.

La., New Orleans.—W. R. Gilbert will erect residence. (See Stores.)

La., Lake Charles.—Leon Locks of Interstate Inland Waterway League will erect brick residence.

La., New Orleans.—H. J. Davis will erect residence Gentilly Ave.; 2 stories; cost \$4000.

Md., Baltimore.—John Philip Hill, 712 Keyser Bldg., will erect residence Guilford.

Md., Chevy Chase.—R. H. Higgins, 427 Manor Pl. N. W., Washington, D. C., will erect residence.

Md., Mt. Washington.—Wilmer Black, 1209 Garrett Bldg., Baltimore, will erect residence Hill Top Park; slate roof; cement cellar and walks; cement floored conservatory; hardwood floors; sleeping porch.

Md., Roland Park.—Herbert E. Cave of C. J. Benson & Co., 501-05 N. Charles St., Baltimore, will erect residence after private plans; 3 stories; frame and stucco.

Mo., St. Louis.—E. E. Mathes will erect store and dwelling. (See Stores.)

Mo., St. Louis.—Ro-Ches Realty Co. will erect six 1-story dwellings and six 1-story sheds 5305-19 Christy St.; cost \$6150.

Mo., St. Louis.—Harry B. White will erect three 1-story dwellings 6614-6617-6623 Elmest St.; cost \$5700.

Mo., St. Louis.—T. Needle will erect store and dwelling. (See Stores.)

Mo., St. Louis.—Chas. N. Lund will erect dwelling Von Versen Ave.; 9 rooms.

Mo., St. Louis.—Mrs. M. Stephens will erect addition to dwelling 5836 Cabanne St.; cost \$5000.

Mo., St. Louis.—Enroco Masone will erect business and residence building. (See Stores.)

Mo., St. Louis.—C. C. Berkeley will erect 2-story dwelling 4934 Berthold St.; cost \$3000.

Mo., St. Louis.—J. R. Burton will erect residence Maryland Terrace; 12 rooms; colonial style; interlocking tile finished with stucco; green variegated slate roof; 3 baths finished with semi-glazed tile; Pompeian room laid in Moravian tile and contain Italian marble fountain; 2-story garage; Preston J. Bradshaw, Archt., St. Louis.

N. C., Concord.—First Baptist Church, Rev. R. E. Brown, pastor, will erect parsonage.

N. C., Monroe.—First Baptist Church will erect parsonage. Address The Pastor.

N. C., Raleigh.—A. S. Guirkin will erect 2 residences S. Boylan Ave.; cost \$6000.

N. C., Winston-Salem.—C. H. Smith will erect 2-story frame dwelling 7th St.; electric lights.

S. C., Charleston.—J. D. Newcomer, Archt., receives bids until Oct. 7 for 7 dwellings for East Bay Improvement Co. (See Stores.)

S. C., Greenville.—Westervelt Mills will build additional operatives' cottages.

Tenn., Chattanooga.—J. Brown will expend \$8000 erect bungalow; 88 ft. 4 in. by 47 ft.; frame; adding 8 in. to weather; shingle roof; brick foundation; plans by J. D. Alsop, James Bldg.; bids opened Sept. 15. (Lately noted.)

Tenn., Memphis.—J. R. Klyce will erect 2 residences 1633 and 1639 Kenilworth Ave.; cost \$3600.

Tenn., Memphis.—Allyn Jones will erect residence 1747 Forrest Ave.; cost \$5000.

Tex., Beaumont.—City, J. G. Sutton, Secy., will erect 5-room cottage, etc. (See City and County.)

Tex., Dallas.—Bergfeld Realty Co. will erect 9-room 2-story frame residence Munger St.; cost \$4000.

Tex., Dallas.—E. T. Summers will erect.



8-room 2-story frame residence 4715 Crutcher St.; cost \$3600.

Tex., Dallas.—Miss M. E. Mosher will erect 2-story frame residence 2723 Holmes St.; cost \$6000.

Tex., Houston.—David Peacock will erect residence on Hathaway St.; eight rooms; cost \$5500.

Tex., San Antonio.—W. A. Baity will erect 10-room 2-story dwelling Alamosa St.; cost \$3000.

Va., Lexington.—Walter Z. Faust, Jr., is having plans prepared for residence.

Va., Roanoke.—W. E. Easter will erect two 2-story frame dwellings Marshall Ave.; cost \$4000.

W. Va., Parkersburg.—Home Bldg. Co., Geo. O. Anderson, Chrm. Bldg. Com., will erect 20 dwellings; brick and concrete block. (Company lately noted incpd., \$25,000 capital.)

## GOVERNMENT AND STATE

Ky., Lakeland.—Hospital for Insane.—Central State Hospital, Dr. W. E. Gardner, Supt., will repair building, erecting temporary roof at once; D. X. Murphy & Bro., Archts., Louisville. (Lately reported burned.)

Mo., Jefferson City.—Capitol.—State Capitol Building Com., E. W. Stephens, Chrm., Columbia, Mo., opens bids Nov. 18 (extended date) to erect State capitol above foundation, including plumbing, electrical work, heating plant; 436x200 ft.; dome 60 ft. in dia., 236 ft. high; 4 floors and basement, resting on 286 concrete pillars sunk to bedrock; Missouri limestone; cost about \$2,500,000; plans by Tracy & Swartwout, 244 5th Ave., New York. (Lately noted.)

N. C., Morganton.—Hospital.—Western State Hospital, Dr. John McCampbell, Supt., will erect \$50,000 woman's building to accommodate 150 patients; Hook & Rogers, Archts., Charlotte.

Okl., Kiowa.—Hospital.—Commr. of Indian Affairs, Cato Sells, will advertise about Oct. 15 to erect hospital for Kiowa, Comanche and Apache Indians; 2 stories; main building 154x43 ft.; annex 40x32 ft.; screened porches.

Tex., Austin.—Hospital.—Mgns. State Insane Hospital will expend \$35,000 to erect fireproof building; 6000 sq. ft. ground area; 2 stories; steam heat; electric lighting; plans by C. H. Page & Bro. (Lately noted.)

## HOTELS

Ark., Wynne.—J. F. Benson and others are promoting erection of 30-room hotel; cost \$30,000 to \$40,000.

Ga., Columbus.—Columbus Georgia Hotel Co. opens bids through Ludlow & Peabody, Archts., 101 Park Ave., New York, Sept. 25 (extended date) to erect hotel; 129x93 ft.; L-shaped; semi-fireproof; steam heat; private electric-power plant; electric and plunger elevator; tile, tin and slag roof; cost \$175,000. (Lately noted.)

Ky., Louisville.—Mason Maury, Archt., prepared plans for apartment hotel for women 3d St. near Kentucky St.; 3 stories; 40 to 50 rooms; electric cooking appliances; site 35x150 ft.; cost \$50,000.

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will erect hotel, etc.; bids received at once. (See Land Developments.)

N. C., Wilmington.—Wilmington Beach Corporation has plans by B. H. Stephens for hotel Wilmington Beach; 400 rooms; fireproof; cost \$150,000; details not complete. (C. E. Creannamer, Pres., Fidelity Trust & Development Co., lately noted as interested in organization of company to erect hotel.)

S. C., Honea Path.—J. F. Shirley, L. L. Wright and W. M. Woods are interested in erecting hotel.

Tenn., New Market.—W. H. Gildard, Knoxville, is preparing plans for 3-story brick hotel; steam heat; cost \$3000.

## MISCELLANEOUS

D. C., Washington.—Lincoln Memorial.—Lincoln Memorial Com., Col. Spencer Cosby, Exec. Off., 1729 New York Ave. N. W., will erect Lincoln Memorial in Potomac Park; 301x132 ft.; marble, granite and concrete; steam heat; electric lights; skylights; plans by Henry Bacon, 101 Park Ave., New York; lowest bidder for superstructure, Geo. A. Fuller Co., Fuller Bldg., New York, at \$1,494,000; for foundation, Chas. H. Fath & Son Construction Co., Cleveland, O., at \$270,000; reported to have let contract Carnegie Steel Co., Pittsburgh, Pa., for 3000 tons steel sheet piling.

La., New Orleans.—Clubhouse.—Oakland

Park Land Co. acquired site for clubhouse for club formed by merger of County Club, St. John Rowing Club and tennis and golf clubs.

La., Shreveport.—Sanitarium.—C. W. King will erect 5-story addition to North Louisiana Sanitarium; cost \$75,000.

Md., Baltimore.—Hospital.—Johns Hopkins Hospital, Broadway and Monument St., receives bids until Sept. 24 to erect James Buchanan Brady Urological Institute; 5 stories; brick; stone trimmings; concrete foundations; slate roof; electric lights; steam heat; cost about \$200,000; contractors estimating; B. F. Bennett Building Co., 123 S. Howard St.; Walter E. Burnham, Law Bldg.; Edw. Brady & Sons, 1113 Cathedral St.; Morrow Bros., Fidelity Bldg.; Henry Smith & Sons Co., 111 Hanover St.; John Hiltz & Sons, 7 Clay St.; Archer & Allen, Archts., Central Savings Bank Bldg. (Previously noted.)

Md., Riverview.—Amusement.—Riverview Park, Michael J. Fitzsimmons, Mgr., 1806 W. Fayette St., Baltimore, will rebuild amusement buildings reported burned at loss of \$3500.

N. C., Monroe.—Hospital.—Icemorlee Mills plans to erect hospital of 40 to 50 rooms; also office building.

N. C., Charlotte.—Home.—Old Ladies' Home, Mrs. B. D. Springs, Pres., will erect home; C. A. Mees, Archt.

Tenn., Whitwell.—Hospital, etc.—Tennessee Coal, Iron & Railroad Co., Dr. Jno. L. Seay, physician, will rebuild emergency hospital and office combined. (Lately reported burned.)

Va., Norfolk.—Clubhouse.—Hampton Roads Yacht Club named R. P. Waller, Linton Jones and C. S. Stanworth committee to secure plans for clubhouse. (Lately noted.)

W. Va., Huntington.—Citadel.—Salvation Army will erect citadel 4th Ave.; bids opened Sept. 16.

## RAILWAY STATIONS, SHEDS, ETC.

Ala., Florence.—Southern Railway Co., B. Herman, Chief Engr., 1309 Pennsylvania Ave., Washington, D. C., will remodel building for passenger station; construction by company's forces. (Lately noted.)

## SCHOOLS

Ark., Clarksville.—School Board will erect school on West Hill; fireproof; cost \$35,000.

Ark., Hot Springs.—City will rebuild Central High School. Address The Mayor. (Lately noted burned at loss of \$70,000.)

D. C., Washington.—Dist. Commrs. opened bids to erect addition to and alter Congress Heights School No. 111, and alterations and addition to Birney School, Anacostia; Melton Construction Co., 11th and H Sts. N. W., is lowest bidder for former at \$35,123, and S. H. Maddox Co., Warder Bldg., lowest bidder for latter at \$31,200. (Previously noted.)

Fla., St. Petersburg.—School Board will erect 4 schools as follows: Bayborough (South), Bayshore (North), Central Academy (colored) and Glen Oak buildings; first two 8 classrooms and auditorium each; others 10 and 5 classrooms and auditorium; brick and clay tile roof; plans by Willis R. Biggers, 3d floor, Franklin Square Bldg., Tampa.

Fla., Taft.—Taft Special School Dist. No. 34 will vote Oct. 3 (extended date) on \$4000 bond issue for school improvements. Address County Board of Public Instruction, Orlando, Fla. (Lately noted.)

La., Opelousas.—Catholic Church, Rev. J. Engberink, pastor, will erect school.

Md., Burkittsville.—Board of School Commrs. rejected bids to erect school; cost \$5000 to \$6000; B. Evard Kepner, Archt., Frederick. (Previously noted.)

N. C., Charlotte.—Board of Aldermen appropriated \$7500 to erect additional rooms to schools as follows: 4 at Elizabeth, 4 N. Charlotte and 2 Dilworth.

N. C., Statesville.—City will petition Legislature for authority to vote on bond issue for school improvements; F. A. Sherrill, Chrmn. School Board.

N. C., Wake Forest.—Euzelian and Philamathesian Literary societies of Wake Forest College will erect society hall.

Okl., Muskogee.—State Bd. of Education is having plans prepared C. W. Dawson for school for blind, for which State appropriated \$35,000.

S. C., Donald.—Donald School Dist. No. 29 will erect school; fireproof; cost \$6000; L. J. Davis may be addressed. (Lately noted planning to issue \$6000 bonds.)

S. C., Turberville.—City will erect graded school. Address The Mayor.

Tenn., Evansville.—Rhea County School Board, Dayton, has plans by W. A. Gensland, Evansville, for school; 2 stories; brick; steam or warm-air heat; ventilating stacks and ducts; concrete foundation; Mr. Gensland supervising construction. (Previously noted.)

Tenn., Paris.—Henry County Board of Education will erect building near Friendship Church for consolidated school of Delno, Vinewood and Sulphur Well Academy; cost about \$3000.

Tex., Dallas.—Southern Methodist University, R. S. Iyer, Pres., will erect woman's building.

Tex., Dallas.—University of Dallas will erect natatorium 3820 Oak Lawn St.; cost \$3000.

Tex., Denton.—College of Industrial Arts, W. B. Bizzell, Pres., has plans by Geo. A. Endress, Littlefield Bldg., Austin, for laundry building; one story; fireproof.

Tex., Holland.—City voted \$20,000 bonds to erect school. Address The Mayor.

Tex., Lening.—Lening School Dist. reported to vote about Oct. 4 on \$5000 bonds for schools. Address Dist. School Trustees.

Tex., Millerville.—Millerville School Dist. Trustees are considering election on bonds for schools.

Tex., New Braunfels.—City voted \$14,000 of bonds to add to \$44,000 issue previously voted to erect school. Address The Mayor. (Lately noted.)

Tex., Ore City.—School Trustees, M. G. Wright, Secy., will receive bids until Sept. 22 to erect 2-story brick school; composition roof; cost about \$6500; plans at office Walter E. Taylor, Archt., Fort Worth, or in Ore City. (Lately noted.)

Tex., Paige.—Paige Ind. School Dist. voted \$5000 bonds for schools. Address Dist. School Trustees.

Tex., Seguin.—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., will erect school, etc. (See Land Developments and Machinery Wanted.)

Va., Richmond.—School Bd., F. C. Ebel, Pres., will petition City Council to appropriate \$150,000 to erect school on Floyd Ave., between Allen Ave. and Vine St.; 36 rooms; accommodations for 900 pupils.

## STORES

Ala., Birmingham.—Frank Nelson, Jr., reported to erect building Third Ave. and 19th St. for F. W. Woolworth Co., New York; probably 2 stories.

Ala., Tuscaloosa.—Cochran & Simpson will expend \$5000 to erect store; 23½x35 ft.; ordinary construction; roofing not determined. (Lately noted.)

Fla., Jacksonville.—J. B. Bours will erect brick building Myrtle Ave.; cost \$5500.

Fla., Lakeland.—D. B. Dickson is having plans prepared by W. B. Talley, Jacksonville, for building; 2 stories; brick; inside dimensions 38x110 ft.

Ga., Savannah.—I. Lavensky will erect store and office building 411 W. Broad St.; brick; about 70x100 ft.; cost \$30,000.

Ky., Carlisle.—Daugherty Lodge No. 65, Ancient Free and Accepted Masons, is having plans prepared for business, theater and lodge building. (See Association and Fraternal.)

Ky., Louisville.—J. J. Gaffney will erect store and apartment building. (See Apartment-houses.)

Ky., Louisville.—J. P. Koch will erect frame store building 3310 W. Broadway; cost \$2300.

Ky., Taylorsville.—F. G. Greenwell & Son open bids Oct. 1 to rebuild store; 90x40 ft.; 2 stories; fireproof; hand-power elevator; galvanized or slate roof; cost \$5000. (Lately reported burned.)

La., New Orleans.—Progressive Realty Co. will erect frame and concrete building; cost \$3000.

La., New Orleans.—F. B. Hayne will expend \$22,000 to repair and alter building Gravier St.

La., New Orleans.—W. R. Gilbert will erect 2-story stone and stucco building Audubon Blvd.; cost \$6000; also 1-story frame residence Pine St.; cost \$3000.

Md., Baltimore.—Wm. Merriken, 100 E. Lexington St., and Chas. J. Dobler have plans by W. O. Sparklin, 2946 Harford Ave., for improvements to building Guilford Ave. and Saratoga Sts.; cost about \$5000.

Mo., Kansas City.—Bay State Land Co. will erect 4-story office and store building. (See Bank and Office.)

Mo., St. Louis.—C. Houstain will erect

2-story store and dwelling 6330 31 Gravolet St.; cost \$10,000.

Mo., St. Louis.—Chas. Gletner will repair building 412 16 S. 6th St.; cost \$500.

Mo., St. Louis.—Enrico Masone will erect building 4944 Delmar Blvd.; 2 stories; 25x60 ft.; brick; terra-cotta front; first floor front, curved glass; lower floor for business; upper floor for residence.

Mo., St. Louis.—T. Needle will erect store and dwelling 5747 Easton St.; 2 stories; cost \$4000.

Mo., St. Louis.—E. E. Mathes will erect 2-story store and dwelling 8501 N. Broadway; cost \$4000.

N. C., Washington.—S. R. Fowle & Son will repair building lately reported damaged by storm.

S. C., Charleston.—J. D. Newcomer, Archt., Charleston, receives bids until Oct. 7 to erect 7 frame residences for East Bay Improvement Co.; remodel stores and install front 134 King St., and remodel and install front 190 King St., both of Palmetto Real Estate & Investment Co.; remodel building Meeting and Tradd Sts. for apartments for Rutherford Apartments, Inc.; plans and specifications from architect.

S. C., Columbia.—Southern Scale & Fixture Co., E. C. Allen, Pres., will erect building; 2 or 3 stories; lower floor for business; upper floor for apartments; 44x125 ft.

Tenn., Columbia.—McKinney, Hutton & Ridley will erect 2 stores; 3 stories and basement; brick and stone; steam heat; electric lighting; electric elevator; tin roof; cost \$20,000 to \$25,000. (Lately noted.)

Tex., Dallas.—Mrs. Anna Moser will erect 2-story brick building and garage 411 Harwood St.; cost \$25,000.

Tex., Dallas.—C. H. Potter will erect 1-story brick building; cost \$3200.

Va., Richmond.—Administrative Board has plans by Carmel & Johnston for market and store building. (See City and County.)

Va., Richmond.—Richmond Dry Goods Co. will, it is reported, erect 4-story building; 55x200 ft.; 88,000 sq. ft. floor space.

W. Va., Wheeling.—Jas. L. Hawley will erect addition to building now under construction Main and Bridge Sts.; cost \$60,000.

W. Va., Wheeling.—T. A. Hoge & Co. acquired 1918-20 Market St.; will raze portion of building and erect structures.

## THEATERS

D. C., Washington.—B. Stanley Simmons, 130 New York Ave., prepared plans for Savoy Theater, 14th St., between Columbia Rd. and Irving St. N. W.; 64x132 ft.; brick, stone and steel; seating capacity 810.

Fla., Kissimmee.—Harry W. Thurman will erect theater Dakin Ave. and Broadway; 50x100 ft.; seating capacity 100; also erect 2-story garage and laundry in rear for Graystone Hotel.

Ky., Carlisle.—Daugherty Lodge No. 65, Ancient Free and Accepted Masons, is having plans prepared for theater, etc. (See Association and Fraternal.)

Mo., St. Louis.—John Cafferata and others are having plans prepared by Kennerly & Steiger, St. Louis, for theater Delmar Ave.; reinforced concrete and brick; fireproof; exterior white terra-cotta; marquette; marble wainscoting in lobby; copper ceiling; auditorium and mezzanine floor to seat 2000. (Lately noted.)

## WAREHOUSES

Ga., Columbus.—Swift Mfg. Co. plans to erect warehouse Sixth Ave.; cost \$10,000.

Ky., Bowling Green.—Farmers' Warehouse is being organized by George W. Hinton and others to erect warehouse.

Ky., Louisville.—No. 1 Distillery Co. will erect warehouse 28th St. and Broadway; 2 stories; brick; 43x105 ft.; capacity 400 bushels; cost \$25,000.

Ky., Milton.—Susquehanna Distillery will erect warehouse; 5 stories; brick; 80x40 ft.

Mo., Joplin.—Frank A. Tonnes, 1047 Virginia Ave., will erect addition to building 1027-42 Virginia Ave. for Tonnes Storage & Transfer Co.; fireproof construction; fireproof doors.

N. C., Salisbury.—Co-operative Warehouse Co., capital \$10,000, incpd. by H. W. Frund, H. P. Brown and W. E. McWhirter.

N. C., Statesville.—Statesville Flour Mill Co. will erect 2-story 80x75-ft. addition to warehouse; day labor.

S. C., Union.—S. M. Rice, R. L. McNally and B. F. Alston organized Farmers' Warehouse Co. with \$10,000 capital to erect bonded warehouse; capacity 4000 bales.

Tenn., Cedar Hill.—Draughton-Gossett Hardware Co. will rebuild warehouse; plans not complete. (Lately reported burned.)

Tex., Beaumont.—City, J. G. Sutton Secy., will erect warehouse, etc. (See City and County.)

Tex., Gonzales.—Gonzales Water-Works Co. will erect warehouse and office building. (See Bank and Office.)

## BUILDING CONTRACTS AWARDED

### APARTMENT-HOUSES

Fla., Tampa.—S. L. Lowry, 33 Plant Ave., let contract Logan Bros. erect apartment-house; 64x90 ft.; ordinary construction; slate roof; cost \$14,000; plans by Bonfoey & Elliott, Tampa. (Lately noted.)

Ga., Atlanta.—G. W. Parrott will expend \$40,000 to erect apartment-house; 52x120 ft.; 3 stories and basement; ordinary construction; brick and hardwood finish; cost heating plant \$1200; gravel roof; plans by Emil Seiz; day labor. (Previously noted under Dwellings.)

Mo., St. Louis.—Mrs. Katherine Deeg let contract F. L. Dittmeier, St. Louis, to erect 3 and 4-room flat Keokuk St.; tile bath; granitoid cellar; cost \$3900.

Mo., St. Louis.—O. S. Hays, 3398 S. Spring Ave., has plans by and let contract C. G. Enlig, 3711 Utah Pl., St. Louis, to erect apartment-house; 11 rooms; 2 stories; ordinary brick construction; hot air furnace; gas and electric lighting; composition roof; cost \$5000. (Lately noted.)

### ASSOCIATION AND FRATERNAL

Ky., Frankfort.—Y. M. C. A. let contract Thomas & Whitten, Louisville, to repair building; replace sections of damaged wall, place concrete beds under foundation where settling occurred (these protected by piling), repair interior walls and readjust floors; cost \$11,000; S. F. Crecellus, Archt., Louisville. (Previously noted.)

Okla., Darlington.—Ancient Free and Accepted Masons let contract at \$31,771.60 to Reynolds & Thompson, Geary, Okla., to erect boys' dormitory Masonic Orphans' Home; to A. F. Bluns for plumbing and heating, and Oklahoma City Electrical Supply Co. for wiring and electrical equipment, both firms of Oklahoma City; 3-story structure; 53x131 ft.; reinforced concrete; fireproof; also let contract at \$5500 to A. C. Kreipke, El Reno, Okla., to erect chapel; 40x80 ft.; brick; near fireproof; art-glass memorial windows; L. H. Bailey, Archt., Oklahoma City. (Lately noted.)

### BANK AND OFFICE

Fla., Zephyrhills.—First State Bank let contract Wm. Francisco to erect bank; 50x21 ft.; fireproof; Carey's roof; cost \$2500; plans by Fred J. James, Citizens' Bank & Trust Co., Tampa; contract for vault, etc., let Franz Safe & Lock Co., Tampa. (Lately noted.)

Ga., Washington.—National Bank of Wilkes let contract Palmer & Magruder, Augusta, to erect bank and office building; 50x63 ft.; ordinary construction; 3 stories; tin roof; cost \$21,800; plans by L. F. Goodrich, Augusta; lately noted. (See Machinery Wanted.)

Tenn., Whitwell.—Bank of Whitwell let contract Jno. M. Brown, Chattanooga, to erect bank and office building; 25x60 ft.; 2 stories; fireproof; steam or hot-air heat; gravel or tar roof; cost \$5000.

W. Va., Huntington.—First National Bank let contract at \$46,000 for interior furnishings; soon let contract for \$7500 worth steel furniture; install \$20,000 vault, etc.; total cost of interior fittings \$75,000.

### CHURCHES

Fla., Winter Park.—Baptist Church let contract Hanna Bros., Orlando, Fla., to erect building; 52x55 ft.; pressed brick; metal shingle roof; cost \$4000.

Ga., Dalton.—First Presbyterian Church let contract Joe L. Wallace, Dalton, to remodel and erect addition to building; cream-colored brick; colonial style; cost \$11,000. (Lately noted.)

Miss., Gulfport.—Methodist Church let contract Chevally & Fursdon to complete building partially constructed; cost \$35,000.

N. C., Edgemont.—Baptist congregation let contract Bernard Crisp to erect building.

S. C., Sumter.—Washington Street Baptist Church let contract B. E. Grandy & Son, Kingstree, S. C., erect building; plans by Sayre & Baldwin, Anderson, S. C.; heating contract let Elieberg Heating & Ventilating Co., Atlanta. (Lately noted.)

Tex., Teague.—Presbyterian Church, Rev. D. Arthur Dickey, pastor, let contract D. B. Martin & Co. to erect building; brick; cost \$18,000. (Lately noted.)

Tex., Victoria.—Rev. F. X. Heck let contract F. E. Page to erect building for Catholic church; 32x60 ft.; 1 story; ordinary construction; shingle roof; cost \$3000; plans by Hull & Praeger, Victoria.

Va., East Radford.—Grove Avenue Methodist Church let contract F. F. Field, Roanoke, to erect church building; brick; Indiana limestone trimmings; slate roof; Sunday-school rooms with rolling partitions; 72x92 ft.; ordinary construction; hot-air heat; electric lights; asbestos shingles; cost \$28,000; C. R. Ragan, Archt., Roanoke. (Lately noted.)

W. Va., Bluefield.—Evangelical Lutheran church, K. Y. Umberger, of committee, let contract J. G. Frye, Graham, Va., to erect church and parsonage lately noted; main building 47x57 ft.; Sunday-school room 36x50 ft.; vapor heat; tin-shingle roof; cost \$12,000; plans by T. T. Carter. (See Machinery Wanted.)

### CITY AND COUNTY

Ala., Carrollton.—Jail.—Pikens County Comms. let contract at \$16,500 to Little-Clecker Construction Co., Anniston, to erect jail; plans by H. B. Wheelock, Birmingham. (Lately noted.)

D. C., Washington.—Storage.—District Comms. let contract at \$11,265 to Melton Construction Co., 11th and H Sts. N. W., to erect storage building for fire department. (Previously noted.)

La., De Ridder.—Jail, etc.—Beauregard Parish Police Jury let contract erect courthouse and jail lately noted. (See Courthouses.)

Md., Baltimore.—Residence.—Board of Awards let contract at \$7538 to C. Herbold & Son to erect superintendent's residence Sydenham Hospital, Bayview; 2 stories; 8 rooms; 24x32 ft. (Lately noted.)

N. C., Mocksville.—Home.—Davie county let contract D. K. Cecil, Lexington, N. C., to erect county home for aged and infirm; 2 stories; brick; cost \$15,000.

Okla., Tulsa.—Hall.—City let contract at \$81,500 to Tom O'Keefe, Oklahoma City, to erect convention hall; seating capacity 425; fireproof; rejected all bids for \$9000 vacuum steam-heating plant. (Lately noted.)

Tex., Dallas.—Jail.—Dallas County Comms. let contract to erect jail: General contract, Crisman & Nesbit, Dallas, at \$307,000; cell work, Pauly Jail Building Co., St. Louis, at \$89,343; electrical work, W. M. Clower, at \$5560; 9 stories and basement; reinforced concrete; fireproof; H. A. Overbeck, Junata Bldg., Dallas. (Lately noted.)

Va., Eastville.—Jail.—Northampton County Supvs. have plans by and let contract Camden Iron Works, Salem, Va., at \$16,000 to erect jail and jailer's residence. (Lately noted.)

### COURTHOUSES

La., De Ridder.—Beauregard Parish Police Jury let contract Falls City Construction Co., Louisville, erect courthouse and jail; reinforced concrete construction; steam heat; electric lighting; polychrome tile roof; terra-cotta trimmings; marble floors and wainscot; plaster walls and ceilings; bronze work; cost \$188,500; plans by Stevens & Nelson Co., Liverpool & London & Globe Annex Bldg., New Orleans. (Lately noted.)

### DWELLINGS

Ala., Bessemer.—Republic Iron & Steel Co. let contract Central Lumber Co., Bessemer, to erect residence at Houston Red Ore Mines.

D. C., Washington.—Geo. P. Hales, 1406 G St. N. W., let contract Wm. H. Harper, 1622 6th St. N. W., to erect residence Chevy Chase Heights; 2 stories and attic; exterior walls stuccoed for 1 story with shingles above; green shingle roof; plans by owner.

D. C., Washington.—Jos. C. Sheehy, 2849 Connecticut Ave. N. W., let contract Wm. H. Harper, 1622 6th St. N. W., to erect residence Jenifer St. between 38th and 39th Sts.; colonial style; 2 stories and attic; porches on 3 sides; Virginia white shingle walls; green shingle roof; stone foundation; Geo. P. Hales, Archt., 1406 G St. N. W.

Fla., Dade City.—Mrs. Maxie B. Phinny let contract John Foxworth, Tampa, to erect bungalow; 5 rooms; cost \$3000; A. H. Johnson, Archt., Tampa.

Fla., St. Petersburg.—Chas. H. Hall has contract to erect 10 dwellings; cost \$30,000.

Fla., Tampa.—Carl Whitaker let contract

Young & Parrish to erect residence Fielding St. and Inman Ave.; 2 stories; brick; 43x57 ft.; 8 rooms; cost \$6000; A. H. Johnson, Archt., Tampa. (Lately noted.)

Ga., Atlanta.—Chancey Smith let contract R. B. Faverell to erect 2-story building 301 Auburn Ave. and two 1-story frame dwellings rear 301 Auburn Ave.; cost \$3090.

Ga., Gainesville.—W. H. Slack let contract Jno. A. Pierce to erect residence; 12 or more rooms; steam heat; electric lights; cost \$9000.

Ga., Savannah.—W. & J. de Bruyn Kops, 27 Bay St., let contract D. P. Phillips to erect dwelling and store; 27x41 ft.; frame; tin roof; cost \$3500; plans by J. de Bruyn Kops. (Lately noted.)

Md., Baltimore.—Mortimer W. West, St. Charles Ave. near Belvidere Ave., has plans by and let contract to W. F. Hildey, 150 St. Charles Ave., for four 2½-story frame dwellings Garrison Ave. near Boarman Ave.; 26x30 ft.; cost \$5000.

Md., Baltimore.—D. Donnelly has plans by and let contract Howard Sill, 11 E. Pleasant St., to erect 11 two-story brick dwellings 1200 block N. Milton Ave.; 14x43 ft.; cost \$15,000.

Md., Overlea.—Wm. M. Smith let contract P. P. Day, 2010 W. Fayette St., Baltimore, to erect residence; 2½ stories; brick and frame; stone foundation; steam heat; electric lights; Henry J. Tinley, Archt., 312 N. Charles St., Baltimore.

Md., Roland Park.—J. V. Stahl, 2200 McCulloh St., let contract J. Henry Smith, 1426 Light St., Baltimore, to erect residence; 2½ stories; frame; shingle roof; stone foundation; H. L. Wirsing, Archt., 210 E. Lafayette Ave., Baltimore. (Lately noted.)

Mo., St. Louis.—F. L. Dittmeier has contract to erect two 1-story 5-room brick cottages; tile baths; electric fixtures; electric shower; granitoid cellar; furnace heat.

Mo., St. Louis.—August J. Hufnagel, 3138 Cherokee St., has plans by and let contract to Leo K. Milberger to erect dwelling and store. (See Stores.)

N. C., Asheville.—J. Rush Oates let contract to erect dwelling Grove Park; fireproof; concrete. (Lately noted.)

N. C., Winston-Salem.—H. F. Aitchison let contract Harrison Miller for foundation for bungalow Central Ter.; 6 rooms.

N. C., Winston-Salem.—H. E. Fries let contract Fogle Bros. to erect residence; brick and stone; asbestos roofing; steam heat; electric lighting; cost \$15,000; plans by W. C. Northrup.

Tenn., Memphis.—I. Bendorf let contract Malkin & Dlugach, Memphis, to erect residence 120 N. Parkway; 75x63 ft.; 2 stories; hot-water heat; electric lighting; tile roof; cost \$35,000; plans by Jones & Furbinger.

Tex., Austell.—Refugio Land & Irrigation Co. let contract C. L. Acree, Victoria, to erect dwelling; 1 story; 7 rooms; ordinary construction; shingle roof; cost \$4500; plans by Hull & Praeger, Victoria.

Tex., Bishop.—F. Z. Bishop let contract Emery Ferrell to erect 24 farmhouses, 28x30 ft.; 24 farm-help houses, 14x20 ft.; 24 barns, 40x30 ft., and 24 horse and cow lots, 100x100 ft.; ordinary frame construction; cost \$31,200; plans by C. F. Harwood. (Lately noted.)

Tex., Dallas.—E. W. Burch, 1513 Elm St., let contract R. D. James, 927 2d Ave., to erect dwelling; frame or concrete; shingle roof; cost \$4000. (Lately noted.)

Tex., Edna.—Dr. J. C. Park let contract J. C. Taylor to erect bungalow.

Tex., Sherman.—Tom H. Smith let contract to erect \$4000 residence.

W. Va., Bluefield.—Evangelical Lutheran Church let contract to erect parsonage and church building. (See Churches.)

W. Va., Warwood.—Wm. Bartels, Wheeling, let contract to erect residence 21st St.

### GOVERNMENT AND STATE

Ga., Cedartown.—Postoffice.—Treasury Dept., Oscar Wenderoth, Superv. Archt., Washington, let contract at \$44,519 to Piedmont Supply Co., Charlottesville, Va., to erect postoffice; fireproof; steam heat; electric lighting; lately noted. (See Machinery Wanted.)

Md., Sykesville.—Hospital.—Directors Springfield State Hospital let contract John Waters, 23 E. Center St., Baltimore, to erect John Hubner Bldg.; 3 stories; brick; concrete base; terra-cotta trimmings; Parker, Thomas & Rice, Archts., Union Trust Bldg., Baltimore. (Lately noted.)

Okla., Enid.—Institution.—Bd. of Pub. Affairs let contract Weller & Reardon, Enid, to erect 5 buildings at State Institution for Feeble-minded, to include hospital and two

dormitories; has \$50,000 appropriation; Shaw & Crowell, Archts., Enid. (Previously noted.)

### HOTELS

Ky., Louisville.—Seelbach Realty Co. let contract Ragland-Baxter-Morford Co., Nashville, Tenn., to erect hotel lately noted; 31x100 ft.; wings 18x15 ft., 13x10 ft. and 15x10 ft.; fireproof; steel frame; concrete floors; dumbwaiter; slag roof; cost \$135,000; plans by H. E. Kennedy Co., 410 Home Trust Bldg., Pittsburgh, Pa.; contracts for floors, partitions and hung ceilings of "Shurebond" let Goldsmith Metal Lath Co., Cincinnati. (See Machinery Wanted.)

### MISCELLANEOUS

La., New Orleans.—Fair.—Southern States Fair and Pan-American Exposition, W. M. Hobbs, Pres., let contract J. A. Petty to erect entrance and administration building; frontage 192 ft.; stucco exterior finish; red tile roof. (Lately noted.)

Mo., St. Louis.—Nursery.—Guardian Angel Settlement let contract John Grewe Construction Co., St. Louis, to erect addition to day nursery; 3 stories; 20x80 ft.; brick and reinforced concrete. (Previously noted.)

Mo., St. Louis.—Natorium, etc.—Lorelei Amusement & Realty Co., Wm. A. Harvey, Pres., let contract Frank P. McClure, St. Louis, to erect building Olive St. for natorium, conservatory of music and store building; 110x200 ft.; fireproof; 4 stores on ground floor; entrance to natorium through marble and tile vestibule and lobby; pool 57x150 ft.; apparatus for heating water; cost \$100,000; Kennerly & Stigenmeyer, Archts., St. Louis; J. I. Epstein will superintend construction and manage structure when completed.

Tex., Bishop.—Barns, etc.—F. Z. Bishop let contract to erect barns, etc. (See Dwellings.)

Tex., Dallas.—Hospital.—Baptist Memorial Sanitarium let contract Alexander & Buff to erect additional building; 50x90 ft.; 3 stories; fireproof; reinforced concrete; steam heat; 2 hand-power elevators; gravel and composition roof; cost \$17,000; plans by C. W. Bulger & Son; heating and lighting contracts not let. (Lately noted.)

W. Va., Bluefield.—Sanitarium.—Drs. Fox and St. Clair will erect fireproof addition to Bluefield Sanitarium; 38x69 ft.; 4 stories; fireproof; vapor heat; electric lighting; exterior, rough textile brick; carved stone cornices; metal window frames; wire glass; fireproof stairways; special doors of slab veneer birch; special plumbing; silent motor for elevator of 200 lbs. capacity, 6x10 ft.; cost \$35,000; cost of elevator, \$2500; plans by A. B. Mahood; contract let to Phipps Bros. (Lately noted.)

### RAILWAY STATIONS, SHEDS, ETC.

La., Minden.—Louisiana & Arkansas R. R., F. W. Green, Gen. Mgr., Stamps, Ark., let contract J. W. Miller, Texarkana, Ark.-Tex., erect passenger station. (See Machinery Wanted.)

Md., Baltimore.—Baltimore, Washington & Annapolis Ry., 108 N. Liberty St., let contract West Construction Co., 15 E. Fayette St., to erect freight shed Pratt near Eutaw St.; brick and reinforced concrete; slag roof; concrete floors; fireproof; steam heat; electric lights; 30x150 ft.

Tex., Dallas.—North Texas Traction Co. (controlled by Stone & Webster Engineering Corp., Boston, Mass.) let contract Bose Construction Co., Waxahachie, Tex., to erect baggage and express station Jefferson St.; 1 story; brick; 10-ft. platform; R. B. Sticher, Gen. Mgr.

### SCHOOLS

Ark., Fayetteville.—University of Arkansas let contract A. M. Byrnes, Fayetteville, to erect boiler-room extension.

Fla., Anna Maria.—Manatee County School Bd. let contract J. B. Rogers, Bradenton, to erect school; cement block construction; cost about \$2500; Fred J. James, Archt., Tampa. (Lately noted.)

La., Iowa.—Calcasieu Parish School Bd., Lake Charles, let contract at \$9362 to G. D. Price, Lake Charles, La., to erect school, and at \$6550 to Delatte & LaGrange to erect school at Vincent. (Lately noted.)

La., Vincent.—Calcasieu Parish School Bd., Lake Charles, let contract to erect school. (See La., Iowa.)

Md., Baltimore.—Phoenix Bridge Co., Phoenixville, Pa., has contract for 300 tons fabricated steel for chemical laboratory for Johns Hopkins University, Homewood, for which B. F. Bennett Building Co., 128 S.



Howard St., Baltimore, has general contract. (Lately noted.)

Okl., Chickasha.—State Board of Public Affairs let contract A. C. Kreipke, El Reno, to erect buildings at Oklahoma College for Women; cost \$7301; Layton & Smith, Architects, Oklahoma City.

Tex., Goliad.—Independent School Dist. will expend \$20,000 to erect school; 75x85 ft.; ordinary construction; electric lighting; galvanized tin shingle roof; plans by Green & Finger, Houston and Galveston; contract lately noted let W. L. Clark. (See Machinery Wanted.)

Va., Richmond.—City is proceeding with construction of Springfield school, for which contract was previously noted let White Granite Co. at \$74,780; plans by Carneal & Johnston. (Lately noted.)

## STORES

Ark., Little Rock.—Mrs. W. P. Dortch let contract Schmeltzer & Schay to erect 7 stores 7th and Gaines Sts.; Charles L. Thompson, Archt., Little Rock. (Lately noted.)

Fla., Lakeland.—L. M. Futch let contract Bishop & Greer, Valdosta, Ga., to erect 2-story building Main St.

Ga., Athens.—Hancock & Mathews let contract Smith Construction Co. to erect business block; 4 stories; 132x46 ft.; ordinary brick, except pressed brick front; cost \$15,000.

Ga., Atlanta.—Turman, Black & Calhoun will erect building 489-95 Peachtree St. for Mrs. Estelle Cuyler Smith, to be leased to United States Tire Co. and Fisk Rubber Co.; 3 stories and basement; pressed brick and plate glass; 85x115 ft.; cost \$60,000; Geo. F. Pawling & Co., Archt. and contractor, Philadelphia, Pa. (Lately noted.)

Ga., Savannah.—W. & J. de Bruyn Kops, 27 Bay St., let contract to erect store and dwelling. (See Dwellings.)

La., Saline.—L. T. Frey let contract J. R. Randolph to erect store; 40x120 ft.; ordinary construction; built-up roof; cost \$4500. (Lately noted.)

Mo., St. Louis.—August J. Hufnagel, 3138 Cherokee St., has plans by and let contract to Leo K. Milberger, 3426 California Ave., erect store and dwelling; 2 stories; hot-water heat; gravel roof; cost \$9000. (Lately noted.)

Mo., St. Louis.—Lorelei Amusement &

Realty Co., Wm. A. Harvey, Prest., let contract to erect building for stores, natatorium, etc. (See Miscellaneous Structures.)

N. C., Winston-Salem.—Holbrook & Moses let contract T. A. Butner to erect store on 5th St.; two stories; brick; electric lights.

S. C., Columbia.—Lorick & Lowrance let contract Frank McNulty, Columbia, to erect building 1523 Main St.; 3 stories and basement; 60x180 ft.; mill construction; automatic sprinkler system; cost \$45,000; Geo. E. Lafaye, Columbia. (Lately noted.)

W. Va., Parkersburg.—C. Z. Ruth let contract T. A. Black to erect business building; concrete, steel and brick; pressed-brick front; 2 stories; 45x100 ft.

## WAREHOUSES

Ala., Birmingham.—W. I. Grubb let contract C. M. Allen to erect warehouse for National Biscuit Co.; pressed brick; 65x130 ft.; cost \$25,000. (Lately noted.)

Ala., Fairhope.—Magnolia Beach Pier Co., Geo. S. Goodhard, Prest., let contract to erect 3 warehouses. (See Miscellaneous Construction.)

Ga., Greensboro.—J. R. Spinks will expend \$6000 to erect warehouse; 1 story; 11,000 sq. ft. floor space; brick; concrete floor; tin roof; plans and construction by J. D. Witcher, Maxey, Ga. (Lately noted.)

Mo., Kansas City.—Montgomery Ward & Co. will erect fireproof building; 1,000,000 sq. ft. concrete, including exterior walls; John W. McKeckle, Archt.; Hendrick, Kent & Lowry Engineering Co., Engrs., 715 Reserve Bank Bldg.; cost \$1,500,000; install 1200 H. P. boilers, 3 compound engines, generators, refrigerating machinery and conveyors. (Wells Bros. Co., Chicago, lately noted as Contr.)

S. C., Columbia.—Kirkland Distributing Co. let contract Geo. W. Waring to erect warehouse; 2 stories and basement; 70x90 ft.; mill construction; electric elevator; automatic sprinkler system; cost \$15,000. (Lately noted.)

S. C., Greenville.—Greenville, Spartanburg & Anderson Ry., A. C. Lee, Engr. M. W., Charlotte, N. C., let contract Jamison & Morris, Greenville, to erect five warehouses on McBee Ave.; 2 stories; inner walls red brick; exposed walls white unit brick; 90x161 ft.; mill construction; gravel roof; cost \$30,000; plans by Cunningham Bros. (Lately noted.)

tracks in the vicinity of Academy St. and McBee Ave. Z. V. Taylor represented the company in obtaining authority from the city for the additional construction. W. S. Lee, Charlotte, N. C., is V. P.

Tenn., Iron City.—Tennessee Western Ry. is reported laying a mile of track a day on its line from Iron City to Collinwood, about 18 miles. W. W. Collin, Hermitage Hotel, Nashville, is Prest. Lacy, McDowell & Co. are contractors.

Tenn., Knoxville.—Survey is reported proceeding for a contemplated extension of the Knoxville, Sevierville & Eastern Ry. from Sevierville eastward. W. J. Oliver, Knoxville, is Prest.

Tenn., Nashville.—Survey of the proposed Cumberland Valley Interurban Ry. from Nashville to Sparta, Tenn., 80 mi., is made to beyond Gladeville, about 25 mi. from Nashville. Rights of way being obtained. J. H. Cartwright, Mt. Juliet, is Prest. and O. L. Omohundro, Nashville, Chief Engr.

Tex., Decatur.—The Fidelity Lumber Co. has laid 6 mi. of track on its railroad and will soon complete 4 mi. more to Wolf Creek east.

Tex., Fredericksburg.—Col. R. A. Love, Prest. of the San Antonio, Fredericksburg & Northern Ry. Co., now building 25 miles of line from Reister to Fredericksburg, says that 100 miles of additional construction will be under way soon. This confirms a previous report.

Tex., Freeport.—C. L. Sharp, V. P. and Gen. Mgr. Gulf, Freeport & Northern Ry. Co., is reported saying grading will begin about Sept. 15 at Columbia on line Freeport to Sealy.

Tex., San Angelo.—B. M. Robinson, 115 Broadway, New York, and engineers are reported investigating for a contemplated railroad from San Angelo to connect for San Antonio. The Chambers of Commerce at San Angelo and San Antonio are reported backing the survey.

Tex., Temple.—According to a local report, charter will be filed soon for a \$3,500,000 company to build the proposed electric inter-

urban railway from Austin to Waco via Temple, using the Southwestern Traction Co.'s 12 mi. line from Temple to Belton. Surveys complete and right of way obtained. A. F. Bentley, Temple, is Prest. (Previously mentioned.)

Va., Millboro.—The Millboro Lumber Co., Inc., is building 10 mi. of standard gauge railroad and already has 1 mi. completed. J. M. Murdock of John town, Pa., is Prest., and the other officers, at the same address, are W. F. Murdock, V. P.; E. B. Murdock, Treas.; H. B. Murdock, Secy. and Mgr.

W. Va., Elkins.—Limestone R. R. Co. of Elkins chartered with \$15,000 capital to construct a line in Beverly and Leeville districts, Randolph county; incorporators, R. B. E. M. and E. A. Cody of Buckhannon; J. H. Isherwood of Elkins, W. Va., and Robert Connell of Washington, D. C.

W. Va., Huntington.—Franchise is granted to the Camp Glass Co. to build a spur track on parts of 25th St. and Oley Ave.

## STREET RAILWAYS

Ark., Helena.—Helena Interurban Ry. is reported surveying to extend line 1900 ft. to the Chicago Mill & Lumber Co. plant.

Ark., Little Rock.—Woodsmall, McCarthy & Peay are reported to have contract to subgrade the Neimeyer extension of the Little Rock Ry. & Electric Co.

Fla., Milton.—Ordinance is before the City Council to grant franchise to H. S. Laird and associates to build a street railway and continue the line toward Bagdad.

Tex., Dallas.—Dallas Consolidated Electric Street Ry. Co. and the Metropolitan Street Ry. Co. are reported authorized to relay their tracks on E. Main St. and Peak St.

Ky., Middlesboro.—Dr. W. Godfrey Hunter is reported representing Eastern capitalists who contemplate construction of a street railway in Middlesboro.

W. Va., Wheeling.—West Virginia Traction & Electric Co. proposes laying new track between Blochs Station and Wheeling Park. Line from West Alexander to Elm Grove is also being improved.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

## "WANTS"

Advertising Novelty and Toys.—H. Mehta & Co., Nadial, Gujarat, India.—Correspondence (view to agencies) with manufacturers of advertising novelty and toys; also stationers' supplies.

Bathroom Fixtures.—Chas. Dobbins, Winston-Salem, N. C.—Prices on bathroom fixtures.

Bed-spring Machinery, etc.—R. S. Barbour, Box 256, South Boston, Va.—Prices on machinery to make bed springs and mattresses.

Boiler.—Georgia Tie Co., 913 National Bank Bldg., Savannah, Ga.—Prices on 2 second-hand return tubular boilers, 80 to 100 H. P., delivered f. o. b. cars company's work's, Mel-drum, Ga.

Boiler.—Fairmont Light & Power Co., Fairmont, N. C.—Prices on 100 H. P. new or second-hand boiler.

Boiler Plant.—General Construction Co., Louisville, Ky.—Prices on boiler plant, etc., for \$200,000 apartment-house.

Boilers and Engines.—Model Laundry & Dry-Cleaning Co., O. L. Gilbreath, Mgr., Logan, W. Va.—Prices on boilers and engines.

Brick Machinery.—See Clayworking Machinery.

Bridge Construction.—P. St. J. Wilson, State Highway Commr., Richmond, Va.—Bids until Sept. 22 at Clerk's office, Powhatan, Va., to construct bridge across Jones Creek; 37-ft. c. to c. span; concrete or reinforced concrete substructure; blueprints obtainable from Childrey & Co. at cost of 20 cents and postage.

Bridge Construction.—Natchitoches Parish Police Jury, G. H. Pierson, Member of Com., Natchitoches, La.—Bids Oct. 8 for constructing 2 steel bridges across Cane River at Chopin and Marco, according to plans and specifications by I. W. Sylvester

on file at courthouse and in office of Mr. Sylvester, Alexandria, La.

Bridge Construction.—Greenville County Commrs., T. J. Newby, Member of Com., Greenville, S. C.—Contract let Sept. 27 for building wooden bridge (across Tiger River) known as Few Bridge and one over Beaver Dam Creek near Gileath's Mill; plans and specifications known on day of letting.

Bridge Construction.—Dural County Commrs., Frank Brown, Clk., Jacksonville, Fla.—Bids until Sept. 26 to construct reinforced concrete bridge on Lem Turner Rd. over Moncrief Creek; plans and specifications from R. D. Drysdale, acting Chm.

Bridge Construction.—P. St. J. Wilson, State Highway Engr., Richmond, Va.—Bids until Sept. 27 at Clerk's office, Rocky Mount, Va., to construct bridge across Pigg River, near Glade Hill; 209 ft. 3 in.; one standard 119 ft. span and steel approach spans; concrete substructure; 12-ft. roadway; plans and specifications at Clerk's office and obtainable from Childrey & Co. at 25 cents and postage.

Bridge Construction.—P. St. J. Wilson, State Highway Engr., Richmond, Va.—Bids until Sept. 29 at clerk's office, Bowling Green, Va., for constructing concrete bridge 44 ft. long over Ware Creek, in Caroline county; superstructure, 2 20-ft. reinforced concrete spans; plans and specifications at Clerk's office and are obtainable from Childrey & Co. at 12½ cents cost and postage.

Bridge Construction.—Pinellas County Commrs., C. W. Wicking, Clk., Clearwater, Fla.—Bids to construct concrete bridge across Booker Creek, St. Petersburg, Fla., according to plans and specifications at Clerk's office; bids opened and contract let at Oct. meeting.

Bridge Construction.—Grady County Commrs., F. P. Bradley, Clk., Chickasha, Okla.—Let contract Sept. 23 for to construct

## RAILROAD CONSTRUCTION

### RAILWAYS

Ala., Mobile.—M. H. Miller, V. P. and Gen. Mgr. of the Mobile & Baldwin County R. R., is reported saying that 5 mi. of grading have been done and 2 mi. of track laying completed out of Volanta, near Fairhope, Ala. Line from Volanta to Pensacola, Fla., will be 44 mi. long.

Ga., Athens.—C. B. Griffith, Athens, says, concerning Atlanta & Carolina Ry., which graded 15 mi. out of Atlanta and laid about 3 mi. of track some time ago, that recent negotiations indicate that money will be raised for construction; have offers to take bonds. Franchises all renewed. When financing is arranged new organization will be formed. Proposed line is from Atlanta via Athens to Augusta, Ga., 200 mi. M. Mason is Prest. and Gen. Mgr.

Ga., Americus.—The Central of Georgia Ry. Co. says it has considered extending tracks along Hampton St. at Americus, but at present is not contemplating their construction. C. K. Lawrence, Savannah, is Chief Engr.

Ky., Pineville.—Louisville & Nashville R. R., it is reported, will double-track from Pineville to Corbin, 32 mi. John Howe Peyton, Louisville, Ky., is Chief Engr. of construction.

Ky., Olympian Springs.—Olympian Springs Ry., Power & Light Co. is reported to have begun construction on its 4-mi. line to Olympian Station. J. D. Wilson, Greensburg, is Prest. and S. F. Creelius, Louisville, Chief Engr.

Ky., Whitesburg.—Contract is not yet awarded for the construction of a short spur for the Louisville & Nashville R. R. up Pot-ters Fork to the mines of the Mineral Fuel Co. John Howe Peyton, Louisville, is ch. engr. of construction.

La., Natchitoches.—Orange & Northeastern Ry. Co., Ed Kennedy, Houston, Tex., Prest., is reported contemplating extension Natchitoches to Shreveport.

Miss., Wausau.—Southern Lumber Co. is reported about to extend its logging railroad 2 or 3 mi.

Mo., Bismarck.—Bismarck, Bellevue Valley & Western Ry. Co., chartered some time ago, has applied for permission from the Public Service Com. to build from Bismarck to Bunker, Mo., 35 or 40 mi. E. Evans of Bismarck is Prest. and Lee A. Hall of St. Louis is Atty. Capital \$200,000. Other incorporators mentioned are Dr. J. L. Eaton, W. R. Goodykoontz and Edward E. Eversole of Potosi; P. T. Ramsey of Sunrise, and J. J. Bunker of Bunker, Mo.

Mo., Monroe City.—Chicago, Burlington & Quincy R. R. surveying Monroe City to Moberly, about 40 miles, for short line. W. L. Breckenridge, Chicago is ch. engr.

Okl., Ardmore.—Dorset Carter and F. C. Hand, engr., of Oklahoma City, are reported contemplating construction of an interurban railway Ardmore to Cornish, 40 miles, via Springer, Woodford and Oil City.

Okl., Cheyenne.—The Cheyenne Short Line from Cheyenne to Strong City, 7 miles, is reported complete and has begun operation.

Okl., Muskogee.—The Missouri, Oklahoma & Gulf Railroad is contemplating a bond issue for extensions, concerning which an investigation has been made by M. M. Humbert and J. R. Doumle, consult engrs., from Paris, representing French financial interests in the property. William Kenedick of Kansas City is Prest. and J. J. Harrison of Muskogee, Ch. Engr.

Okl., Tulsa.—W. E. Hawley, Tulsa, Prest. Oklahoma & Texas Pacific R. R. Co., is quoted saying that the first section from Tulsa, Okla., to Coffeyville, Kan., will be under construction within 3 months. Line will be from Coffeyville to Fort Worth, Tex., about 300 mi.

S. C., Florence.—Construction is fast progressing on the extension of the South Carolina Western Railway from Florence to Poston, S. C., about 32 miles, all grading being done and track laying to begin immediately. Trestles under way at Jeffreys and Willow creeks. W. R. Bonsal, Hamlet, N. C., is prest.

S. C., Greenville.—Greenville, Spartanburg & Anderson Ry. (Medmont & Northern Lines) will build industrial and connecting

Tex., Beaumont.—City, J. G. Sutton Secy., will erect warehouse, etc. (See City and County.)

Tex., Gonzales.—Gonzales Water-Works Co. will erect warehouse and office building. (See Bank and Office.)

## BUILDING CONTRACTS AWARDED

### APARTMENT-HOUSES

Fla., Tampa.—S. L. Lowry, 33 Plant Ave., let contract Logan Bros. erect apartment-house; 64x90 ft.; ordinary construction; slate roof; cost \$14,000; plans by Bonfoey & Elliott, Tampa. (Lately noted.)

Ga., Atlanta.—G. W. Parrott will expend \$40,000 to erect apartment-house; 52x120 ft.; 3 stories and basement; ordinary construction; brick and hardwood finish; cost heating plant \$1200; gravel roof; plans by Emil Seiz; day labor. (Previously noted under Dwellings.)

Mo., St. Louis.—Mrs. Katherine Deeg let contract F. L. Dittmeier, St. Louis, to erect 3 and 4-room flat Keokuk St.; tile bath; granite cellar; cost \$4000.

Mo., St. Louis.—O. S. Hays, 3508 S. Spring Ave., has plans by and let contract C. G. Emig, 2711 Utah Pl., St. Louis, to erect apartment-house; 11 rooms; 2 stories; ordinary brick construction; hot air furnace; gas and electric lighting; composition roof; cost \$5000. (Lately noted.)

### ASSOCIATION AND FRATERNAL

Ky., Frankfort.—Y. M. C. A. let contract Thomas & Whitten, Louisville, to repair building; replace sections of damaged wall, place concrete beds under foundation where settling occurred (these protected by piling), repair interior walls and readjust floors; cost \$11,000; S. F. Creelius, Archt., Louisville. (Previously noted.)

Okla., Darlington.—Ancient Free and Accepted Masons let contract at \$31,771.00 to Reynolds & Thompson, Geary, Okla., to erect boys' dormitory Masonic Orphans' Home; to A. F. Binns for plumbing and heating, and Oklahoma City Electrical Supply Co. for wiring and electrical equipment, both firms of Oklahoma City; 3-story structure; 53x131 ft.; reinforced concrete; fireproof; also let contract at \$8550 to A. C. Kreipke, El Reno, Okla., to erect chapel; 40x80 ft.; brick; near fireproof; art-glass memorial windows; L. H. Bailey, Archt., Oklahoma City. (Lately noted.)

### BANK AND OFFICE

Fla., Zephyrhills.—First State Bank let contract Wm. Francisco to erect bank; 50x21 ft.; fireproof; Carey's roof; cost \$2500; plans by Fred J. James, Citizens' Bank & Trust Co., Tampa; contract for vault, etc., let Franz Safe & Lock Co., Tampa. (Lately noted.)

Ga., Washington.—National Bank of Wilkes let contract Palmer & Magruder, Augusta, to erect bank and office building; 50x63 ft.; ordinary construction; 3 stories; tin roof; cost \$21,300; plans by L. F. Goodrich, Augusta; lately noted. (See Machinery Wanted.)

Tenn., Whitwell.—Bank of Whitwell let contract Jno. M. Brown, Chattanooga, to erect bank and office building; 25x60 ft.; 2 stories; fireproof; steam or hot air heat; gravel or tar roof; cost \$5000.

W. Va., Huntington.—First National Bank let contract at \$46,000 for interior furnishings; soon let contract for \$7500 worth steel furniture; install \$20,000 vault, etc.; total cost of interior fittings \$75,000.

### CHURCHES

Fla., Winter Park.—Baptist Church let contract Hanna Bros., Orlando, Fla., to erect building; 52x55 ft.; pressed brick; metal shingle roof; cost \$4000.

Ga., Dalton.—First Presbyterian Church let contract Joe L. Wallace, Dalton, to remodel and erect addition to building; cream-colored brick; colonial style; cost \$11,000. (Lately noted.)

Miss., Gulfport.—Methodist Church let contract Chevally & Fursdon to complete building partially constructed; cost \$35,000.

N. C., Edgemont.—Baptist congregation let contract Bernard Crisp to erect building.

S. C., Sumter.—Washington Street Baptist Church let contract B. E. Grandy & Son, Kingstree, S. C., erect building; plans by Sayre & Baldwin, Anderson, S. C.; heating contract let Elchberg Heating & Ventilating Co., Atlanta. (Lately noted.)

Tex., Teague.—Presbyterian Church, Rev. D. Arthur Dickey, pastor, let contract D. B. Martin & Co. to erect building; brick; cost \$18,000. (Lately noted.)

Tex., Victoria.—Rev. F. X. Heck let contract F. E. Page to erect building for Catholic church; 32x60 ft.; 1 story; ordinary construction; shingle roof; cost \$3000; plans by Hull & Praeger, Victoria.

Va., East Radford.—Grove Avenue Methodist Church let contract P. F. Field, Roanoke, to erect church building; brick; Indiana limestone trimmings; slate roof; Sunday-school rooms with rolling partitions; 72x92 ft.; ordinary construction; hot-air heat; electric lights; asbestos shingles; cost \$28,000; C. R. Ragan, Archt., Roanoke. (Lately noted.)

W. Va., Bluefield.—Evangelical Lutheran church, K. Y. Umberger, of committee, let contract J. G. Frye, Graham, Va., to erect church and parsonage lately noted; main building 47x57 ft.; Sunday-school room 36x50 ft.; vapor heat; tin-shingle roof; cost \$12,000; plans by T. T. Carter. (See Machinery Wanted.)

### CITY AND COUNTY

Ala., Carrollton.—Jail.—Pickens County Commrs. let contract at \$16,500 to Little-Checkler Construction Co., Anniston, to erect jail; plans by H. B. Wheelock, Birmingham. (Lately noted.)

D. C., Washington.—Storage.—District Commrs. let contract at \$11,265 to Melton Construction Co., 11th and H Sts. N. W., to erect storage building for fire department. (Previously noted.)

La., De Ridder.—Jail, etc.—Beauregard Parish Police Jury let contract erect courthouse and jail lately noted. (See Courthouses.)

Md., Baltimore.—Residence.—Board of Awards let contract at \$5758 to C. Herbold & Son to erect superintendent's residence Sydenham Hospital, Bayview; 2 stories; 8 rooms; 24x32 ft. (Lately noted.)

N. C., Mocksville.—Home.—Davie county let contract D. K. Cecil, Lexington, N. C., to erect county home for aged and infirm; 2 stories; brick; cost \$15,000.

Okla., Tulsa.—Hall.—City let contract at \$81,500 to Tom O'Keefe, Oklahoma City, to erect convention hall; seating capacity 4225; fireproof; rejected all bids for \$6000 vacuum steam-heating plant. (Lately noted.)

Tex., Dallas.—Jail.—Dallas County Commrs. let contract to erect jail: General contract, Crisman & Nesbit, Dallas, at \$307,000; cell work, Pauly Jail Building Co., St. Louis, at \$99,343; electrical work, W. M. Clower, at \$5500; 9 stories and basement; reinforced concrete; fireproof; H. A. Overbeck, Junata Bldg., Dallas. (Lately noted.)

Va., Eastville.—Jail.—Northampton County Supvrs. have plans by and let contract Camden Iron Works, Salem, Va., at \$16,000 to erect jail and jailer's residence. (Lately noted.)

### COURTHOUSES

La., De Ridder.—Beauregard Parish Police Jury let contract Falls City Construction Co., Louisville, erect courthouse and jail; reinforced concrete construction; steam heat; electric lighting; polychrome tile roof; terra-cotta trimmings; marble floors and wainscot; plaster walls and ceilings; bronze work; cost \$188,500; plans by Stevens & Nelson Co., Liverpool & London & Globe Annex Bldg., New Orleans. (Lately noted.)

### DWELLINGS

Ala., Bessemer.—Republic Iron & Steel Co. let contract Central Lumber Co., Bessemer, to erect residence at Houston Red Ore Mines.

D. C., Washington.—Geo. P. Hales, 1406 G St. N. W., let contract Wm. H. Harper, 1622 6th St. N. W., to erect residence Chevy Chase Heights; 2 stories and attic; exterior walls stuccoed for 1 story with shingles above; green shingle roof; plans by owner.

D. C., Washington.—Jos. C. Sheehy, 2849 Connecticut Ave. N. W., let contract Wm. H. Harper, 1622 6th St. N. W., to erect residence Jenifer St. between 38th and 39th Sts.; colonial style; 2 stories and attic; porches on 3 sides; Virginia white shingle walls; green shingle roof; stone foundation; Geo. P. Hales, Archt., 1406 G St. N. W.

Fla., Dade City.—Mrs. Maxie B. Phinny let contract John Foxworth, Tampa, to erect bungalow; 5 rooms; cost \$3000; A. H. Johnson, Archt., Tampa.

Fla., St. Petersburg.—Chas. H. Hall has contract to erect 10 dwellings; cost \$30,000.

Fla., Tampa.—Carl Whitaker let contract

Young & Parrish to erect residence Fielding St. and Inman Ave.; 2 stories; brick; 43x57 ft.; 8 rooms; cost \$6000; A. H. Johnson, Archt., Tampa. (Lately noted.)

Ga., Atlanta.—Chancey Smith let contract R. B. Faverell to erect 2-story building 301 Auburn Ave. and two 1-story frame dwellings rear 301 Auburn Ave.; cost \$3000.

Ga., Gainesville.—W. H. Slack let contract Jno. A. Pierce to erect residence; 12 or more rooms; steam heat; electric lights; cost \$3000.

Ga., Savannah.—W. & J. de Bruyn Kops, 27 Bay St., let contract D. P. Phillips to erect dwelling and store; 27x41 ft.; frame; tin roof; cost \$3500; plans by J. de Bruyn Kops. (Lately noted.)

Md., Baltimore.—Mortimer W. West, St. Charles Ave. near Belvidere Ave., has plans by and let contract to W. F. Hildey, 150 St. Charles Ave., for four 2½-story frame dwellings Garrison Ave. near Boarman Ave.; 26x30 ft.; cost \$5000.

Md., Baltimore.—D. Donnelly has plans by and let contract Howard Sill, 11 E. Pleasant St., to erect 11 two-story brick dwellings 1200 block N. Milton Ave.; 14x13 ft.; cost \$15,000.

Md., Overlea.—Wm. M. Smith let contract P. P. Day, 2010 W. Fayette St., Baltimore, to erect residence; 2½ stories; brick and frame; stone foundation; steam heat; electric lights; Henry J. Tinley, Archt., 312 N. Charles St., Baltimore.

Md., Roland Park.—J. V. Stehl, 2300 McCulloh St., let contract J. Henry Smith, 1426 Light St., Baltimore, to erect residence; 2½ stories; frame; shingle roof; stone foundation; H. L. Wirsing, Archt., 210 E. Lafayette Ave., Baltimore. (Lately noted.)

Mo., St. Louis.—F. L. Dittmeier has contract to erect two 1-story 5-room brick cottages; tile baths; electric fixtures; electric shower; granite cellar; furnace heat.

Mo., St. Louis.—August J. Hufnagel, 3138 Cherokee St., has plans by and let contract to Leo K. Milberger to erect dwelling and store. (See Stores.)

N. C., Asheville.—J. Rush Oates let contract to erect dwelling Grove Park; fireproof; concrete. (Lately noted.)

N. C., Winston-Salem.—H. F. Aitchison let contract Harrison Miller for foundation for bungalow Central Ter.; 6 rooms.

N. C., Winston-Salem.—H. E. Fries let contract Fogle Bros. to erect residence; brick and stone; asbestos roofing; steam heat; electric lighting; cost \$15,000; plans by W. C. Northrup.

Tenn., Memphis.—I. Bensdorf let contract Malkin & Dlugach, Memphis, to erect residence 120 N. Parkway; 75x63 ft.; 2 stories; hot-water heat; electric lighting; tile roof; cost \$35,000; plans by Jones & Furlinger.

Tex., Austell.—Refugio Land & Irrigation Co. let contract C. L. Acree, Victoria, to erect dwelling; 1 story; 7 rooms; ordinary construction; shingle roof; cost \$4500; plans by Hull & Praeger, Victoria.

Tex., Bishop.—F. Z. Bishop let contract Emery Ferrell to erect 24 farmhouses, 28x30 ft.; 24 farm-help houses, 14x20 ft.; 24 barns, 40x30 ft., and 24 horse and cow lots, 100x100 ft.; ordinary frame construction; cost \$31,200; plans by C. F. Harwood. (Lately noted.)

Tex., Dallas.—E. W. Burch, 1513 Elm St., let contract R. D. James, 927 2d Ave., to erect dwelling; frame or concrete; shingle roof; cost \$4000. (Lately noted.)

Tex., Edna.—Dr. J. C. Park let contract J. C. Taylor to erect bungalow.

Tex., Sherman.—Tom H. Smith let contract to erect \$4000 residence.

W. Va., Bluefield.—Evangelical Lutheran Church let contract to erect parsonage and church building. (See Churches.)

W. Va., Warwood.—Wm. Bartels, Wheeling, let contract to erect residence 21st St.

### GOVERNMENT AND STATE

Ga., Cedartown.—Postoffice.—Treasury Dept., Oscar Wenderoth, Superv. Archt., Washington, let contract at \$44,519 to Piedmont Supply Co., Charlottesville, Va., to erect postoffice; fireproof; steam heat; electric lighting; lately noted. (See Machinery Wanted.)

Md., Sykesville.—Hospital.—Directors Springfield State Hospital let contract John Waters, 23 E. Center St., Baltimore, to erect John Hubner Bldg.; 3 stories; brick; concrete base; terra-cotta trimmings; Parker, Thomas & Rice, Archts., Union Trust Bldg., Baltimore. (Lately noted.)

Okla., Enid.—Institution.—Bd. of Pub. Affairs let contract Weller & Reardon, Enid, to erect 5 buildings at State Institution for Feeble-minded, to include hospital and two

dormitories; has \$50,000 appropriation; Shaw & Crowell, Archts., Enid. (Previously noted.)

### HOTELS

Ky., Louisville.—Seelbach Realty Co. let contract Ragland-Baxter-Morford Co., Nashville, Tenn., to erect hotel lately noted; 31x100 ft.; wings 18x15 ft., 13x10 ft. and 15x10 ft.; fireproof; steel frame; concrete floors; dumbwaiter; slag roof; cost \$135,000; plans by H. E. Kennedy Co., 410 Home Trust Bldg., Pittsburgh, Pa.; contracts for floors, partitions and hung ceilings of "Shurebond" let Goldsmith Metal Lath Co., Cincinnati. (See Machinery Wanted.)

### MISCELLANEOUS

La., New Orleans.—Fair.—Southern States Fair and Pan-American Exposition, W. M. Hobbs, Pres., let contract J. A. Petty to erect entrance and administration building; frontage 192 ft.; stucco exterior finish; red tile roof. (Lately noted.)

Mo., St. Louis.—Nursery.—Guardian Angel Settlement let contract John Grewe Construction Co., St. Louis, to erect addition to day nursery; 3 stories; 20x80 ft.; brick and reinforced concrete. (Previously noted.)

Mo., St. Louis.—Natorium, etc.—Lorelei Amusement & Realty Co., Wm. A. Harvey, Pres., let contract Frank P. McClure, St. Louis, to erect building Olive St. for natorium, conservatory of music and store building; 110x200 ft.; fireproof; 4 stores on ground floor; entrance to natorium through marble and tile vestibule and lobby; pool 57x150 ft.; apparatus for heating water; cost \$100,000; Kennerly & Stigemeyer, Archts., St. Louis; J. I. Epstein will superintend construction and manage structure when completed.

Tex., Bishop.—Barns, etc.—F. Z. Bishop let contract to erect barns, etc. (See Dwellings.)

Tex., Dallas.—Hospital.—Baptist Memorial Sanitarium let contract Alexander & Buff to erect additional building; 50x90 ft.; 3 stories; fireproof; reinforced concrete; steam heat; 2 hand-power elevators; gravel and composition roof; cost \$17,000; plans by C. W. Bulger & Son; heating and lighting contracts not let. (Lately noted.)

W. Va., Bluefield.—Sanitarium.—Mrs. Fox and St. Clair will erect fireproof addition to Bluefield Sanitarium; 38x63 ft.; 4 stories; fireproof; vapor heat; electric lighting; exterior, rough textile brick; carved stone cornices; metal window frames; wire glass; fireproof stairways; special doors of slab veneer birch; special plumbing; silent motor for elevator of 2000 lbs. capacity, 6x10 ft.; cost \$35,000; cost of elevator, \$2500; plans by A. B. Mahood; contract let to Phipps Bros. (Lately noted.)

### RAILWAY STATIONS, SHEDS, ETC.

La., Minden.—Louisiana & Arkansas R. R. P. W. Green, Gen. Mgr., Stamps, Ark., let contract J. W. Miller, Texarkana, Ark.-Tex., erect passenger station. (See Machinery Wanted.)

Md., Baltimore.—Baltimore, Washington & Annapolis Ry., 108 N. Liberty St., let contract West Construction Co., 15 E. Fayette St., to erect freight shed Pratt near Eutaw St.; brick and reinforced concrete; slag roof; concrete floors; fireproof; steam heat; electric lights; 30x150 ft.

Tex., Dallas.—North Texas Traction Co. (controlled by Stone & Webster Engineering Corp., Boston, Mass.) let contract Bose Construction Co., Waxahachie, Tex., to erect baggage and express station Jefferson St.; 1 story; brick; 10-ft. platform; R. B. Stitcher, Gen. Mgr.

### SCHOOLS

Ark., Fayetteville.—University of Arkansas let contract A. M. Byrnes, Fayetteville, to erect boiler-room extension.

Fla., Anna Maria.—Manatee County School Bd. let contract J. B. Rogers, Bradentown, to erect school; cement block construction; cost about \$2500; Fred J. James, Archt., Tampa. (Lately noted.)

La., Iowa.—Calcasieu Parish School Bd., Lake Charles, let contract at \$362 to G. D. Price, Lake Charles, La., to erect school, and at \$650 to Delatte & LaGrange to erect school at Vincent. (Lately noted.)

La., Vincent.—Calcasieu Parish School Bd., Lake Charles, let contract to erect school. (See La., Iowa.)

Md., Baltimore.—Phoenix Bridge Co., Phoenixville, Pa., has contract for 300 tons fabricated steel for chemical laboratory for Johns Hopkins University, Homewood, for which B. F. Bennett Building Co., 128 S.



Howard St., Baltimore, has general contract. (Lately noted.)

Okl., Chickasha.—State Board of Public Affairs let contract A. C. Kreipke, El Reno, to erect buildings at Oklahoma College for Women; cost \$7201; Layton & Smith, Archts., Oklahoma City.

Tex., Goliad.—Independent School Dist. will expend \$20,000 to erect school; 75x85 ft.; ordinary construction; electric lighting; galvanized tin shingle roof; plans by Green & Finger, Houston and Galveston; contract lately noted let W. L. Clark. (See Machinery Wanted.)

Va., Richmond.—City is proceeding with construction of Springfield school, for which contract was previously noted let Wise Granite Co. at \$74,780; plans by Carneal & Johnston. (Lately noted.)

## STORES

Ark., Little Rock.—Mrs. W. P. Dortch let contract Schmeltzer & Schay to erect 7 stores 7th and Gaines Sts.; Charles L. Thompson, Archt., Little Rock. (Lately noted.)

Fla., Lakeland.—L. M. Futch let contract Bishop & Greer, Valdosta, Ga., to erect 2-story building Main St.

Ga., Athens.—Hancock & Mathews let contract Smith Construction Co. to erect business block; 4 stories; 132x46 ft.; ordinary brick, except pressed brick front; cost \$15,000.

Ga., Atlanta.—Turman, Black & Calhoun will erect building 489-95 Peachtree St. for Mrs. Estelle Cuyler Smith, to be leased to United States Tire Co. and Fisk Rubber Co.; 3 stories and basement; pressed brick and plate glass; 85x115 ft.; cost \$60,000; Geo. F. Pawling & Co., Archt. and contractor, Philadelphia, Pa. (Lately noted.)

Ga., Savannah.—W. & J. de Bruyn Kops, 27 Bay St., let contract to erect store and dwelling. (See Dwellings.)

La., Saline.—L. T. Frey let contract J. R. Randolph to erect store; 40x120 ft.; ordinary construction; built-up roof; cost \$4500. (Lately noted.)

Mo., St. Louis.—August J. Hufnagel, 3128 Cherokee St., has plans by and let contract to Leo K. Milberger, 3126 California Ave., erect store and dwelling; 2 stories; hot-water heat; gravel roof; cost \$9000. (Lately noted.)

Mo., St. Louis.—Lorelei Amusement &

Realty Co., Wm. A. Harvey, Prest., let contract to erect building for stores, natatorium, etc. (See Miscellaneous Structures.)

N. C., Winston-Salem.—Holbrook & Moses let contract T. A. Butner to erect store on 5th St.; two stories; brick; electric lights.

S. C., Columbia.—Lorick & Lowrance let contract Frank McNulty, Columbia, to erect building 1523 Main St.; 3 stories and basement; 60x180 ft.; mill construction; automatic sprinkler system; cost \$45,000; Geo. E. Lafaye, Columbia. (Lately noted.)

W. Va., Parkersburg.—C. Z. Ruth let contract T. A. Black to erect business building; concrete, steel and brick; pressed-brick front; 2 stories; 45x100 ft.

## WAREHOUSES

Ala., Birmingham.—W. I. Grubb let contract C. M. Allen to erect warehouse for National Biscuit Co.; pressed brick; 65x130 ft.; cost \$25,000. (Lately noted.)

Ala., Fairhope.—Magnolia Beach Pier Co., Geo. S. Goodbrad, Prest., let contract to erect 3 warehouses. (See Miscellaneous Construction.)

Ga., Greensboro.—J. R. Spinks will expend \$6000 to erect warehouse; 1 story; 11,000 sq. ft. floor space; brick; concrete floor; tin roof; plans and construction by J. D. Wicher, Maxeys, Ga. (Lately noted.)

Mo., Kansas City.—Montgomery Ward & Co. will erect fireproof building; 1,000,000 sq. ft. concrete, including exterior walls; John W. McKecknie, Archt.; Henriel, Kent & Lowry Engineering Co., Engr., 715 Reserve Bank Bldg.; cost \$1,500,000; install 1200 H. P. boilers, 3 compound engines, generators, refrigerating machinery and conveyors. (Wells Bros. Co., Chicago, lately noted as Contr.)

S. C., Columbia.—Kirkland Distributing Co. let contract Geo. W. Waring to erect warehouse; 2 stories and basement; 70x80 ft.; mill construction; electric elevator; automatic sprinkler system; cost \$18,000. (Lately noted.)

S. C., Greenville.—Greenville, Spartanburg & Anderson Ry. Co., A. C. Lee, Engr. M. W. Charlotte, N. C., let contract Jamison & Morris, Greenville, to erect five warehouses on McBee Ave.; 2 stories; inner walls red brick; exposed walls white unit brick; 90x161 ft.; mill construction; gravel roof; cost \$30,000; plans by Cunningham Bros. (Lately noted.)

Mo., Bismarck.—Bismarck, Bellevue Valley & Western Ry. Co., chartered some time ago, has applied for permission from the Public Service Com. to build from Bismarck to Bunker, Mo., 35 or 40 mi. E. Evans of Bismarck is Prest. and Lee A. Hall of St. Louis is Atty. Capital \$300,000. Other incorporators mentioned are Dr. J. L. Eaton, W. R. Goodykoontz and Edward E. Eversole of Potosi; P. T. Ramsey of Sunrise, and J. J. Bunker of Bunker, Mo.

Mo., Monroe City.—Chicago, Burlington & Quincy R. R. surveying Monroe City to Moberly, about 40 miles, for short line. W. L. Breckenridge, Chicago is ch. engr.

Okl., Ardmore.—Dorset Carter and F. C. Hand, engr., of Oklahoma City, are reported contemplating construction of an interurban railway Ardmore to Cornish, 40 miles, via Springer, Woodford and Oil City.

Okl., Cheyenne.—The Cheyenne Short Line from Cheyenne to Strong City, 7 miles, is reported complete and has begun operation.

Okl., Muskogee.—The Missouri, Oklahoma & Gulf Railroad is contemplating a bond issue for extensions, concerning which an investigation has been made by M. M. Humbert and J. R. Doumie, consult engrs., from Paris, representing French financial interests in the property. William Kendrick of Kansas City is Prest. and J. J. Harrison of Muskogee, Ch. Engr.

Okl., Tulsa.—W. E. Hawley, Tulsa, Prest. Oklahoma & Texas Pacific R. R. Co., is quoted saying that the first section from Tulsa, Okla., to Coffeyville, Kan., will be under construction within 3 months. Line will be from Coffeyville to Fort Worth, Tex., about 300 mi.

S. C., Florence.—Construction is fast progressing on the extension of the South Carolina Western Railway from Florence to Poston, S. C., about 32 miles, all grading being done and tracklaying to begin immediately. Trestles under way at Jeffreys and Willow creeks. W. R. Bonsal, Hamlet, N. C., is prest.

S. C., Greenville.—Greenville, Spartanburg & Anderson Ry. (Piedmont & Northern Lines) will build industrial and connecting

tracks in the vicinity of Academy St. and McBee Ave. Z. V. Taylor represented the company in obtaining authority from the city for the additional construction. W. S. Lee, Charlotte, N. C., is V. P.

Tenn., Iron City.—Tennessee Western Ry. is reported laying a mile of track a day on its line from Iron City to Collinwood, about 18 miles. W. W. Collin, Hermitage Hotel, Nashville, is Prest. Lacy, McDowell & Co. are contractors.

Tenn., Knoxville.—Survey is reported proceeding for a contemplated extension of the Knoxville, Sevierville & Eastern Ry. from Sevierville eastward. W. J. Oliver, Knoxville, is Prest.

Tenn., Nashville.—Survey of the proposed Cumberland Valley Interurban Ry. from Nashville to Sparta, Tenn., 80 mi., is made to beyond Gladeville, about 25 mi. from Nashville. Rights of way being obtained. J. H. Cartwright, Mt. Juliet, is Prest. and O. L. Omohundro, Nashville, Chief Engr.

Tex., Doucette.—The Fidelity Lumber Co. has laid 6 mi. of track on its railroad and will soon complete 4 mi. more to Wolf Creek east.

Tex., Fredericksburg.—Col. R. A. Love, Prest. of the San Antonio, Fredericksburg & Northern Ry. Co., now building 25 miles of line from Relster to Fredericksburg, says that 100 miles of additional construction will be under way soon. This confirms a previous report.

Tex., Freeport.—C. L. Sharp, V. P. and Gen. Mgr. Gulf, Freeport & Northern Ry. Co., is reported saying grading will begin about Sept. 15 at Columbia on line Freeport to Sealy.

Tex., San Angelo.—B. M. Robinson, 115 Broadway, New York, and engineers are reported investigating for a contemplated railroad from San Angelo to connect for San Antonio. The Chambers of Commerce at San Angelo and San Antonio are reported backing the survey.

Tex., Temple.—According to a local report, charter will be filed soon for a \$3,500,000 company to build the proposed electric inter-

urban railway from Austin to Waco via Temple, using the Southwestern Traction Co.'s 12-mi. line from Temple to Belton. Surveys complete and right of way obtained. A. F. Bentley, Temple, is Prest. (Previously mentioned.)

Va., Millboro.—The Millboro Lumber Co., Inc., is building 10 mi. of standard gauge railroad and already has 1 mi. completed. J. M. Murdock of John town, Pa., is Prest., and the other officers, at the same address, are W. F. Murdock, V. P.; E. B. Murdock, Treas.; H. B. Murdock, Secy. and Mgr.

W. Va., Elkins.—Limestone R. R. Co. of Elkins chartered with \$15,000 capital to construct a line in Beverly and Leedsville districts, Randolph county; incorporators, R. R. E. M. and E. A. Cody of Buckhannon; J. H. Isherwood of Elkins, W. Va., and Robert Connell of Washington, D. C.

W. Va., Huntington.—Franchise is granted to the Camp Glass Co. to build a spur track on parts of 25th St. and Oley Ave.

## STREET RAILWAYS

Ark., Helena.—Helena Interurban Ry. is reported surveying to extend line 1800 ft. to the Chicago Mill & Lumber Co. plant.

Ark., Little Rock.—Woodsmall, McCarthy & Peay are reported to have contract to subgrade the Nolmeyer extension of the Little Rock Ry. & Electric Co.

Fla., Milton.—Ordinance is before the City Council to grant franchise to H. S. Laird and associates to build a street railway and continue the line toward Bagdad.

Tex., Dallas.—Dallas Consolidated Electric Street Ry. Co. and the Metropolitan Street Ry. Co. are reported authorized to relay their tracks on E. Main St. and Peak St.

Ky., Middlesboro.—Dr. W. Godfrey Hunter is reported representing Eastern capitalists who contemplate construction of a street railway in Middlesboro.

W. Va., Wheeling.—West Virginia Traction & Electric Co. proposes laying new track between Blochs Station and Wheeling Park. Line from West Alexander to Elm Grove is also being improved.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

### "WANTS"

**Advertising Novelty and Toys.**—H. Mehta & Co., Nadlad, Gujarat, India.—Correspondence (view to agencies) with manufacturers of advertising novelty and toys; also stationers' supplies.

**Bathroom Fixtures.**—Chas. Dobbins, Winston-Salem, N. C.—Prices on bathroom fixtures.

**Bed-spring Machinery, etc.**—R. S. Barbour, Box 286, South Boston, Va.—Prices on machinery to mfr. bed springs and mattresses.

**Boiler.**—Georgia Tie Co., 913 National Bank Bldg., Savannah, Ga.—Prices on 2 second-hand return tubular boilers, 80 to 100 H. P., delivered f. o. b. cars company's work's, Mel-drum, Ga.

**Boiler.**—Fairmont Light & Power Co., Fairmont, N. C.—Prices on 100 H. P. new or second-hand boiler.

**Boiler Plant.**—General Construction Co., Louisville, Ky.—Prices on boiler plant, etc., for \$200,000 apartment-house.

**Boilers and Engines.**—Model Laundry & Dry-Cleaning Co., O. L. Gilbreath, Mgr., Logan, W. Va.—Prices on boilers and engines.

**Brick Machinery.**—See Clayworking Machinery.

**Bridge Construction.**—P. St. J. Wilson, State Highway Commr., Richmond, Va.—Bids until Sept. 22 at Clerk's office, Powhatan, Va., to construct bridge across Jones Creek; 37 ft. c. to c. span; concrete or reinforced concrete substructure; blueprints obtainable from Childrey & Co. at cost of 20 cents and postage.

**Bridge Construction.**—Natchitoches Parish Police Jury, G. H. Pierson, Member of Com., Natchitoches, La.—Bids Oct. 8 for constructing 2 steel bridges across Cane River at Chopin and Marco, according to plans and specifications by I. W. Sylvester

on file at courthouse and in office of Mr. Sylvester, Alexandria, La.

**Bridge Construction.**—Greenville County Commrs., T. J. Newby, Member of Com., Greenville, S. C.—Contract let Sept. 27 for building wooden bridge (across Tiger River) known as Few Bridge and one over Beaver Dam Creek near Gilbreath's Mill, plans and specifications known on day of letting.

**Bridge Construction.**—Dural County Commrs., Frank Brown, Clk., Jacksonville, Fla.—Bids until Sept. 26 to construct reinforced concrete bridge on Lem Turner Rd. over Monerlet Creek; plans and specifications from R. D. Drysdale, acting Chm.

**Bridge Construction.**—P. St. J. Wilson, State Highway Engr., Richmond, Va.—Bids until Sept. 27 at Clerk's office, Rocky Mount, Va., to construct bridge across Pigg River, near Glade Hill; 200 ft. 3 in.; one standard 119 ft. span and steel approach spans; concrete substructure; 12-ft. roadway; plans and specifications at Clerk's office and obtainable from Childrey & Co. at 39 cents and postage.

**Bridge Construction.**—P. St. J. Wilson, State Highway Engr., Richmond, Va.—Bids until Sept. 29 at clerk's office, Bowling Green, Va., for constructing concrete bridge 44 ft. long over Ware Creek, in Caroline county; superstructure, 2 20-ft. reinforced concrete spans; plans and specifications at Clerk's office and are obtainable from Childrey & Co. at 12½ cents cost and postage.

**Bridge Construction.**—Pinellas County Commrs., C. W. Wierckling, Clk., Clearwater, Fla.—Bids to construct concrete bridge across Booker Creek, St. Petersburg, Fla., according to plans and specifications at Clerk's office; bids opened and contract let at Oct. meeting.

**Bridge Construction.**—Grady County Commrs., F. P. Bradley, Clk., Chickasha, Okla.—Let contract Sept. 22 for to construct

3 bridges, 2 across East Bitter Creek, 50-ft. steel spans, 70-ft. approach; 1 across Spring Creek, 60-ft. steel span, 30-ft. approach.

**Bridge Construction.**—Office of Clerk, Berkeley county, Martinsburg, W. Va.—Bids until Sept. 24 for constructing concrete bridge across Middle Creek, 8 mi. from Martinsburg; 35-ft. span of waterway, 16-ft. wide roadway and 5 ft. high from present water level to center of arch, with capacity to support uniformly distributed 150 lbs. per sq. ft. or concentrated load of 20-ton road roller.

**Bridge Construction.**—City, Ben Campbell, Mayor, Houston, Tex.—Bids until Sept. 24 for removal of superstructure, steel highway bridge across Buffalo Bayou on Hill St. and construct riveted steel swing bridge in same location; center pier, abutments, turntable and apparatus for swinging present bridge used for new bridge; center pier on south side of bayou; turntable curved plate-girder, 26 ft. 7½ in. in diam., center to center of web plate; total length, 300 ft. center to center and bearings; space between trusses, which are 22 ft. center to center, is occupied by roadway and outside trusses sidewalk 6 ft. wide on each side; bidders requested to make personal inspection of site; for information address City Engr.

**Bridge Construction.**—Whitfield and Murray County Comms., Dalton, Ga.—Bids Oct. 11 to construct bridge across Conasauga River; steel span, 100 ft.; substructure concrete; approach 72 ft.; steel; concrete floor. Information furnished by H. J. Wood.

**Broom Machinery.**—Page Milling Co., E. C. Harnsberger, Pres., Luray, Va.—Prices on broom machinery, hand or power driven.

**Building Materials.**—W. L. Clark, Goddard, Tex.—Prices on mill work, lumber, common brick, plaster and plumbing.

**Building Materials.**—Vesuvius Plow Works, W. F. Humphries, Secy., Vesuvius, Va.—Prices on cement, roofing, builders' hardware, white pine pattern and flask lumber.

**Building Materials.**—Evangelical Lutheran Church, K. Y. Umberger, of Com., Bluefield, W. Va.—Prices on brick and ornamental windows.

**Building Materials.**—Ragland-Baxter-Morford Co., Nashville, Tenn.—Prices on Kalamein doors, metal windows, steel stairs, iron and bronze grills for \$135,000 hotel, Louisville, Ky.

**Building Materials, etc.**—Daly Contracting Co., Meridian, Miss.—White marble trends and risers, white stainless cement, galvanized iron wall tiles, ceramic vitreous tiles, galvanized iron wire fencing, ingot iron painted laths, Medusa waterproofing (for stucco) and Paradux roofing.

**Building Materials.**—J. W. Miller, Texarkana, Ark.—Prices on brick, Portland cement, reinforcing iron, structural steel, stone, lumber, etc., for railway station at Minden, La.

**Canning Machinery, etc.**—Dayton Canning Co., W. A. Sherman, Mgr., Dayton, Tenn.—Prices on equipment for fruit and vegetable cannery; also on packers' cans and canners' supplies for jobbing.

**Chains.**—L. H. Bruce, Elkton, Va.—Addresses mfrs. of and dealers in sprocket chains for automobiles.

**Chain, Wire Cable, etc.**—F. C. Boggs, Maj., Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Com., Washington, D. C.—Bids until Oct. 4 for furnishing chain, wire cable, lead washers, iron washers, portable forges, scythe blades, steel tapes, hose packing, asbestos gaskets, rawhide belt lacing, etc. Blanks and general information relating to this circular (No. 799) at this office or offices of assistant purchasing agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1066 North Point St., San Francisco; also from U. S. Engr. offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash.

**Clayworking Machinery.**—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, New Orleans.—Machinery for manufacturing building, fireproof and fire-clay bricks, china from kaolin, patterns, etc.

**Cold-storage Plants.**—Federal Fruit & Cold Storage Co., Whitney-Central Bank Bldg., New Orleans, La.—Correspondence with manufacturers and builders of cold-storage plants.

**Concrete Tank.**—Sewerage Committee, Dunn, N. C.—Bids until Sept. 29 for building

reinforced concrete Imhoff tank, about 20 ft. square by 25 ft. deep, excavation; plans and specifications at offices of M. L. Wade, Mayor, and of Gilbert C. White, Engr., Charlotte, N. C.

**Copper Wire.**—See Mining Equipment.

**Corametal Mill.**—Geo. Y. McCully, Beauvue, Md.—Prices on mill for grinding cornmeal with Virginia stones, 20 to 26 in.

**Cotton-rug Machinery.**—C. R. Borders, Box 35, Cedartown, Ga.—wants data on manufacturing cotton rugs and prices on machinery.

**Cresosoting Plant.**—Chamber of Commerce, A. V. Snell, Secy., Charleston, S. C.—Data on cost establishing cresosoting plant and catalogue of machinery.

**Crushers.**—Jesse Hardin, Fayetteville, Tenn.—Prices on lime crushers.

**Crushing Machinery.**—C. Fred Hunt, Box 238, South Station, Springfield, Mo.—Prices on portable stone crusher with traction engine, crusher and bin; all on wheels.

**Dam Construction.**—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., Seguin, Tex.—Bids to construct earth dam.

**Drainage.**—Comms. of Caddo Levee Dist., J. M. Sentell, Pres., Shreveport, La.—Bids until Oct. 1 at office of Board of State Engrs., 213 New Orleans Court Bldg., New Orleans, for improving drainage in Caddo parish; Bennetts Pass, Bayou Pierre, La.; excavation 40,000 cu. yds.

**Earthwork.**—Fort Smith Lumber Co., C. W. Jones, Gen. Mgr., Plainview, Ark.—Bids until Sept. 26 for excavating 15,800 cu. yds. earthwork for grading railroad; deepest cut 3 ft., highest fill being 11 ft.

**Earthwork.**—U. S. Engr. Office, Mississippi River Com., Fourth District, New Orleans, La.—Bids until Sept. 18 to construct 629,000 cu. yds. earthwork in Lower Tensas Levee District; C. O. Sherrill, Capt. Engrs. Information on application.

**Electric Machinery.**—See Hoist.

**Electric-light Plant.**—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., Seguin, Tex.—Bids to install electric-light plant.

**Electric-light Plant.**—G. L. Sauls, Lake City, S. C.—Correspondence relative to equipment and installation of municipal electric-light plant; expenditure about \$12,500.

**Electric-light Plant.**—City, T. W. Pilcher, Chrm. Com., Augusta, Ga.—Information relative to installing electric-light plant.

**Electrical Machinery.**—Raleigh Iron Works Co., Raleigh, N. C.—50 K. W. D. C. unit; 2300 volt, 3-phase, 60-cycle, second hand.

**Electrical Machinery.**—Niangua Heights Development Co., R. G. Scott & Son, Engrs., Linn Creek, Mo.—Small dynamo, etc., for hydro-electric plant next spring.

**Engine.**—Magnolia Bench Pier Co., Geo. S. Goodbrad, Pres., Fairhope, Ala.—Prices on gasoline engine for car service.

**Engine.**—Fairmont Light & Power Co., Fairmont, N. C.—Prices on 35 H. P. new or second-hand Corliss engine.

**Engine.**—J. C. Ball & Co., Lyallpur, Punjab, India, write to Manufacturers Record: "Give C. I. F. Karachi quotations by cable on water-works engine; \* \* \* compound double-acting, with flywheel and surface condenser to pump 6 to 8 gals. water per stroke, with water and feed pump attached; H. P. Cyl. 8 in. diam; L. P. Cyl. 15 in. diam by 15 in. stroke."

**Engines.**—A. J. McArthur, 1143 Third National Bank Bldg., Atlanta, Ga.—Addresses of mfrs. exhaust steam turbine engines, operated with condenser and vacuum pump.

**Engines.**—See Boilers and Engines.

**Excelsior Machinery.**—John G. Duncan Co., 308 W. Jackson Ave., Knoxville, Tenn.—Dealers' prices on excelsior machines; second-hand, good order.

**Feed-water Heater.**—Fairmont Light & Power Co., Fairmont, N. C.—Prices on feed-water heater.

**Fertilizer Machinery.**—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, New Orleans.—Fertilizer machinery; 500 tons daily capacity.

**Fire Apparatus.**—B. B. Tynes, Clk., Cooper, Tex.—Prices on automobile fire engine (water and chemical combined) to pump water from cisterns and shallow wells; cost \$3500 to \$5000

**Foundry Equipment and Supplies.**—Vesuvius Plow Works, W. F. Humphries, Secy., Vesuvius, Va.—Prices on foundry equipment and supplies.

**Funeral Cars.**—T. J. Ananto, Camden, S. C.—Addresses of manufacturers of funeral cars.

**Furnaces, etc.**—Isthmian Canal Com., F.

C. Boggs, Maj., General Purchasing Officer, Washington, D. C.—Bids until Oct. 8 for furnishing oil-burning forges and furnaces and thermo-electric pyrometers. Blanks and general information relating to circular No. 800 at this office or offices of assistant purchasing agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1066 North Point St., San Francisco; also from U. S. Engr. offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash.

**Gas Main.**—Cobb Realty Co., Geo. McKenzie, Fourth National Bank Bldg., Atlanta, Ga.—Will let contract to construct 7800 ft. gas main.

**Grading.**—Chas. E. Bolling, City Engr., Richmond, Va.—Bids until Sept. 17 for grading Gilbert and Walker Sts. between Meadow St. and William Byrd Park, and Addison St. south of Beverly St.; Chas. E. Bolling, City Engr.

**Granite Screenings.**—Progressive Club, Rufus Jones, Secy., Clarksdale, Miss.—Addresses of quarries in Arkansas relative to obtaining granite screenings.

**Handle Manufacturers.**—Page Milling Co., E. C. Harnsberger, Pres., Luray, Va.—To correspond with broom-handle manufacturers.

**Heating Plant.**—Palmer & Magruder, Augusta, Ga.—Prices on heating plant for bank and office building, Washington, Ga.

**Hoist.**—Herron Coal Mining Co., W. F. Herron, Mgr., Coalton, Okla.—Electric hoist.

**Hoist.**—Standard Basket Mfg. Co., Guntersville, Ala.—Horse-power hoist. State condition, power and range.

**Hoisting Machinery.**—Standard Basket Co., Guntersville, Ala.—Prices on power hoist; state condition, power and range of machine.

**Ice Machinery.**—Burlington Junction Ice Co., Lon Monk, Mgr., Burlington Junction, Mo.—Receiving bids on 10-ton ice plant.

**Ice Machinery.**—Hamilton Townsite Co., Chas. R. Tips, Gen. Mgr., Seguin, Tex.—Bids to install ice plant.

**Iron Work.**—N. Relsner, 111 Diszlergasse 1, Vienna, Austria-Hungary.—700 to 1000 tons girders and joists in lengths of fabrication, 12-16 meters; quote lowest cash price c. i. f. Hamburg; wants prices from manufacturers.

**Ironworking Machinery.**—M. A. Black, 208 Olive St., Dallas, Tex.—Catalogues and prices on machinery to mfr. iron fence and iron letter signs.

**Laundry Machinery.**—Sabel Bros., Jacksonville, Fla.—Prices on second-hand power laundry outfit for town, 1500 population.

**Levee Construction.**—Board of Estate Engrs., Frank M. Kerr, Ch. State Engr., 213 New Orleans Court Bldg., New Orleans.—Bids until Sept. 17 for following levee work: Merrick levee, Pointe Coupee parish, Atchafalaya River, left bank, new levee, 20,000 cu. yds.; Harlem levee, Plaquemine parish, Mississippi River, left bank, search ditch and enlargement, 33,000 cu. yds.; Venice levee, Plaquemine parish, Mississippi River, right bank, 17,000 cu. yds. earthwork and 6000 ft. wooden revetment.

**Levee Work.**—Johnson Construction Co., 501 Rock St., Little Rock, Ark.—Correspondence with contractors; view to subletting about 100,000 yds. levee work in central Arkansas; drag line operation.

**Levee Construction.**—Levee Comms., New Orleans Levee Dist., H. J. Malochie, Pres. pro tem., 291 New Orleans Court Bldg., New Orleans.—Bids until Sept. 23 for following work in Lower Fifth District, Mississippi River, right bank: Aurora enlargement, 6000 ft. long, 25,000 cu. yds., deposit, \$150; cut-off road enlargement, 4000 ft. long, 40,000 cu. yds., deposit, \$175; Couret-Orleans new levee, 2400 ft. long, 100,000 cu. yds., deposit, \$325; Stanton new levee, 1550 ft. long, 50,000 cu. yds., deposit, \$300; Stanton enlargement, 2200 ft. long, 31,000 cu. yds., deposit, \$150; Huguet pile bank protection, 150 ft. long, deposit, \$100; plans and specifications at office of Comms.

**Lighting Fixtures.**—N. S. Lingamfelter, 2515 University Pl. N. W., Washington, D. C.—Prices on electrical equipment for lights, etc.

**Lighting Fixtures, etc.**—Fairmont Light & Power Co., Fairmont, N. C.—Prices on line material, street lighting fixtures, etc.

**Lumber.**—See Mining Equipment.

**Lighting Plant.**—General Construction

Co., Louisville, Ky.—Prices on electrical equipment for \$15,000 isolated lighting plant for \$200,000 apartment-house.

**Locomotive (Gasoline).**—Blue Ridge Lime Co., Fletcher, N. C.—Prices on gasoline locomotive for tramway; 36-in. gauge; to handle about 30 tons up 2 per cent. grade; tramway maximum curvature, 35 degrees.

**Locomotive.**—Arapahoe-Bairds Creek Tramway Co., Jos. M. Reed, Pres., Arapahoe, N. C.—Light locomotive; 36-in. gauge tramway.

**Locomotive.**—L. F. Hobbs, Box 453, Norfolk, Va.—10-16 Forney locomotive; 36-in. gauge; first-class; second-hand. Give details and price first letter.

**Log Loader.**—Mutual Equipment Co., Richmond, Va.—6x8 log loader, without skidder. State price and location first letter.

**Looms.**—See Cotton-rug Machinery.

**Mantels.**—N. S. Lingamfelter, 2515 University Pl. N. W., Washington, D. C.—Prices on mantels.

**Mattress Machinery.**—See Bed-spring Machinery.

**Mill Work.**—Piedmont Supply Co., Charlottesville, Va.—Prices on mill work for United States postoffice, Cedartown, Ga.

**Mining Equipment.**—Loony Creek Coal Co., Geo. A. Clutts, Mgr., Barboursville, Ky.—Prices on mine cars, screens and weigh pan, dressed boxing, flooring and ceiling, drums, ropes, roofing, 2 and 3-0 copper wire.

**Mining Machinery.**—Louisiana Interstate Mineral Co., C. F. Peterson, Pres., Hotel St. Charles, New Orleans.—Machinery for mining and manufacturing asbestos; daily capacity 100 tons.

**Motor (Railway) Cars.**—R. E. Land, Arlington, Ga.—Prices on gasoline equipment for interurban railway.

**Motor Cars.**—See Fire Apparatus.

**Paving.**—Andrew J. Nehouse, Recorder, Patterson, P. O. at Wheeling, W. Va.—Bids until Sept. 18 for paving Kruger St.; plans and specifications at Mayor's office.

**Paving, etc.**—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., Atlanta, Ga.—Will let contract to construct 4900 ft. 18x15 in. curb, 4900 ft. straight guttering, 6 ft. wide; 5600 sq. yds. 6-in. macadam paving, with or without tar binding; 2400 sq. yds. 18-in. tile sidewalk.

**Paving.**—Mayor's office, Benwood, W. Va. Bids until Sept. 23 for paving between tracks of Wheeling Traction Co. on Marshall St., in Benwood, 6900 ft., 3900 yds. paving; plans and specifications at offices of Mayor and C. C. Smith, Board of Trade Bldg., Wheeling, W. Va.

**Paving.**—City, Fred Fries, Clk., San Antonio, Tex.—Bids until Sept. 30 for paving College St., between Navarro and Loyola Sts., with vitrified brick, cresosoted wood block, bitulithic, rock asphalt or other permanent pavement.

**Paving.**—City, L. H. Baker, Secy. Treas., Shreveport, La.—Bids Sept. 23 for paving 30-ft. alley and approach to Red River traffic bridge between Spring and Commerce Sts. and from Lake to Jones St.; brick; 2500 sq. yds.; plans and specification at City Engr.'s office.

**Paving.**—Paving Com., R. Keith Compton, Chrm., Baltimore, Md.—Bids until Sept. 24 at City Registers office for granite block contract No. 65; President St. from Lancaster to Fawn St.; repaving, 5410 sq. yds.; new paving, 500 sq. yds.; plans and specifications in office of Com.

**Pipe.**—See Tanks and Piping.

**Piping.**—Niangua Heights Development Co., R. G. Scott & Son, Engrs., Linn Creek, Mo.—Piping for hydro-electric plant next spring.

**Piping.**—G. M., care Manufacturers Record, Baltimore, Md.—17 mi. second hand 5-6 in. or 6½ in. casing; good condition; state price and location.

**Plumbing.**—See Bathroom Fixtures.

**Pump.**—Fairmont Light & Power Co., Fairmont, N. C.—Prices on pump.

**Rails.**—W. C. Jones, R. F. D. No. 1, Silver Spring, Md.—Prices on 235 tons 60-lb. relay rails, with plates, bolts, spikes, switches, etc., delivered Forest Glen, Md.; also need about 1000 tons in early spring.

**Ranges.**—N. S. Lingamfelter, 2515 University Pl. N. W., Washington, D. C.—Prices on ranges for dwelling.

**Reinforcing.**—See Building Materials.

**Road Construction.**—Cleburne County Comms., Heflin, Ala.—Bids until Sept. 29 for grading, draining and surfacing with topsoil part of Heflin and Evans Bridge Rd.; expenditure \$8000; W. S. Keller, State Highway Engr., Montgomery, Ala.

**Road Construction.**—State Roads Com.,



Wm. L. Marcy, Secy., 601 Garrett Bldg., Baltimore, Md.—Bids until Oct. 1 for building 2 sections State highway, 1.28 mi.; contract No. Be 8, Baltimore city, 1 section Reisters-town Rd. from Elgin Ave. to Pimlico Circle, about .50 mi. (sheet asphalt and granite block); contract No. B12, Baltimore county, 1 section along Frederick Rd. between St. Timothy's Lane and Meloni Ave., through Catonsville, about .35 mi. (concrete roadway or bituminous concrete; bids upon blank form in book of specifications furnished by Com. on application and payment of \$2 each section.

**Sandstone.**—Palmer & Magruder, Augusta, Ga.—Prices on gray canyon sandstone (cut job), delivered Washington, Ga.

**Sewer Construction.**—Office W. B. Johnson, Clerk of City Council, Statesboro, Ga.—Bids until Oct. 15 to construct sanitary sewer system; about 13 mi. pipe sewers 6 to 30 in. diam., septic tanks, sludge beds, etc.; forms, specifications, etc., with City Clerk; F. B. Groover, Engr.

**Sewers.** See Water-works and Sewers.

**Sewers.**—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., Atlanta, Ga.—Will let contract to construct 2900 ft. sewers.

**Sewers.**—City, L. H. Baker, Secy.-Treas., Shreveport, La.—Bids Sept. 23 for constructing extension to South Ave. storm sewer; plans and specifications at City Engr.'s office.

**Sewers.**—District Comms., 427 District Bldg., Washington, D. C.—Bids until Sept. 18 for constructing sewers; plans, etc., obtainable Ch. Clk. Engr. Dept.

**Sewers.**—Board Public Works, J. L. Young, member of Com., Plant City, Fla.—Bids until Oct. 10 for constructing sanitary sewer system; 18,570 ft. 8-in., 9390 ft. 10-in., 1750 ft. 12-in., 6910 ft. 15-in. pipe, 90 manholes, 27 flush tanks and 2 septic tanks or settling basins; plans and specifications at office of Clerk.

**Sewers.**—Sewerage Com., Chas. England, Chrm., 904 American Bldg., Baltimore, Md.—Bids until Sept. 24 at City Registers' office, City Hall, for sanitary sewer contract No. 121; 14,000 lin. ft. vitrified pipe sewers, 8 to 15 in. in diameter; 17,000 lin. ft. vitrified pipe connections; Calvin W. Hendrick, Ch. Engr.

**Sewers.**—Dept. of Streets and Sewers, A. N. Sloan, Commr., Chattanooga, Tenn.—Bids until Sept. 18 for constructing brick main sewer on 14th St. from Maple St. to Tennessee River, and certain lateral or tributary sewers on Ash, Sycamore, Elm, Ross, 12th and 13th Sts.; plans, etc., at City Engr.'s office.

**Stationers' Supplies.**—See Advertising Novelties and Toys.

**Shingle Mill.**—Geo. Y. McCully, Beauve, Md.—Prices on shingle mill.

**Street Lighting.**—Dept. Public Finances, Accounting Division, A. G. Ricks, Commr., New Orleans, La.—Bids until Sept. 22 to install ornamental lamp posts, cables, conduits, etc., for lighting Esplanade Ave. from North Rampart St. to North Claiborne Ave., according to plans in office of City Electrician.

**Tanks and Piping.**—Archer Oil Co., Pryor, Okla.—May want tankage, pipe and casing within 60 days; delivery Collinsville, Okla.

**Watchmen's Clocks.**—Carolina Public Service Co., Denmark, S. C.—Catalogues and prices on watchmen's portable clocks.

**Water Main.**—Cobb Realty Co., Geo. McKenzie, Treas., Fourth National Bank Bldg., Atlanta, Ga.—Will let contract to construct 2900 ft. water main.

**Waterproofing.**—Superintendent U. S. Capitol Bldg. and Grounds, Washington, D. C.—Proposals at 2 P. M. October 1 for waterproofing terraces surrounding Capitol Bldg.; plans and specifications furnished for \$25 as guarantee for return.

**Water-works.**—Hamilton Townsite Co., Chas. R. Tipps, Gen. Mgr., Seguin, Tex.—Bids to construct water-works and tanks and drill artesian wells, etc.

**Water-works and Sewers.**—Sumter County Comms., D. H. Baker, Chrm., Bushnell, Fla.—Bids until Oct. 6 at office of W. N. Potter, Clk., for driving 4-in. well and furnishing galvanized pipe; steel tower for tank 45 ft. high; 3000-gal. cypress tank; 6 H. P. gasoline engine; deep-well pump; galvanized pipe; septic tank, etc.

**Water-wheel.**—Nianqua Heights Development Co., R. G. Scott & Son, Engrs., Linn Creek, Mo.—Turbine wheel next spring.

**Water-works.**—City, J. B. Houser, Mayor, Cherryville, N. C.—Bids until Sept. 30 for constructing water-works, to include pumping station, reservoir, steel tank and tower, deep wells, laying 5 mi. pipe, install-

ing electric-driven pumping machinery, air compressors, etc.; copies of plans and specification furnished on application to J. Newton Johnston, Engr., Box 165, McColl, S. C.

**Water-works Material.**—City, C. L. Lacey, City Secy., Henderson, Tex.—Bids Oct. 20 for boiler, compound duplex pump, boiler-feed pump, 300 tons cast-iron pipe and 9 tons specials; list obtainable by addressing Secy. or O'Neill Engineering Co., Engr., 1503 Praetorian Bldg., Dallas.

**Wire Fencing.**—See Building Materials, etc.

**Wireworking Machinery.**—Noble Machine Co., Fort Wayne, Ind.—Second-hand 4-slide wire-forming machine; No. 1 or No. 2.

**Woodworking Machinery.**—Vesuvius Plow Works, W. F. Humphries, Secy., Vesuvius, Va.—Prices on woodworking machinery.

**Woodworking Machinery.**—Georgia Tile Co., 913 National Bank Bldg., Savannah, Ga.—Prices on second-hand lumber trimmer, 2 saws, two-saw edger, shingle machine and lath bolting machine.

## KENTUCKY WATERS.

### Industrial Enterprises Dependent on a Pure Water Supply.

The pioneers of Kentucky entered the State through the mountain passes to the east, bringing with them, perforce, the barest necessities of life, and were compelled to rely on game for a large part of their food supplies. These early settlers found that certain saline springs were frequented by large game, and that these springs or the trails leading to them formed the best hunting grounds.

The early industrial enterprises of the Bluegrass region consisted of mills and distilleries, many of which relied upon springs for their water supplies; but with the development of the country the supplies from springs became inadequate and many of them have been abandoned. At the present time much water for industrial use is drawn from streams or wells, although springs continue to hold a very important place, and in some localities drilled or driven wells are used.

The problem of procuring water for industrial purposes is very important, particularly if a large amount of water of a certain quality or of a definite range of temperature is required.

In Kentucky, as elsewhere, occasional outbreaks of water-borne diseases, such as typhoid fever, have emphasized the necessity of obtaining pure water supplies or preventing the pollution of present supplies. Hundreds or even thousands of dollars have been wasted in unsuccessful attempts to procure water by drilling deep wells, and the usefulness and the safety of many city supplies have been seriously impaired by improper location or faulty construction of wells. Two examples of useless drilling may be cited.

At one place, where water was needed for the irrigation of flowers, an attempt was made to obtain a supply by drilling about 600 feet into rock formation that furnishes large quantities of water at only a few places, and never furnishes water of the quality needed except within about 100 feet of the surface; and an attempt was made to supply water for a small city by sinking a well to a depth of nearly 2000 feet in a locality where there was no possibility of procuring enough fresh water from a single well to supply more than two or three families, and where no water suitable for a city supply could be found more than 100 feet below the surface. Obviously a knowledge of these conditions would have saved much time and money.

The need for definite information in regard to the water resources of the country has long been evident to both practical and scientific men, and in the Bluegrass region the subject has keen interest for sanitarians, householders, manufacturers and civic communities. Water-Supply Paper 233 of the United States Geological

Survey, by George C. Matson, contains a discussion of the waters of this region—their source, character, and distribution, including a large number of analyses. The report includes a chapter on the quality of these waters and discussions of the action of various kinds of water on boilers and their behavior in different industrial processes, such as soap-making, ice-making, brewing and distilling.

A copy of this report may be obtained free of charge on application to the Director, United States Geological Survey, Washington, D. C.

### Banking Facilities for Small Borrowers.\*

A retail merchant with very limited capital and the small farmer are finding it increasingly difficult to borrow money from banks in England. The private banker has almost entirely disappeared from the English countryside, having been replaced by a branch of a joint stock bank with central offices in London. Formerly in the village and shire towns the private banker had a very wide acquaintance and knew quite intimately the character of those who came to him for money. He did not loan so much on acres and crops and cattle as upon industry and integrity—upon his knowledge of and belief in the man himself. The small merchants and farmers were accommodated with such loans as they needed at a fair rate of interest. The representative of the joint stock bank who looks after his principals' interest lacks, not only the personal knowledge which the private banker possessed, but also his power of initiative. He is required to refer applications for loans to some higher authority, or else turns them down promptly with the knowledge that his employers are anxious to consolidate funds as far as possible in London, so as to be able to make large loans to the more important companies.

The unfortunate condition of the small borrower, in town and country alike, is simply the result, of course, of that great economic movement which for many years past has been consolidating capital, developing large department stores, combining industries, and thereby rendering it more and more difficult for the man with restricted means to carry on a business or operate a farm.

The conditions in Scotland seem to be somewhat different from those prevailing in England. The general manager of one of the large banks in London states:

"Scottish bankers from the very beginning have always supported the small agriculturist and shopkeeper or, in fact, anyone in a small way of business, to an extent almost unknown south of the Tweed. The assistance so rendered has been through the medium of what are known as 'cash credit bonds.' A small farmer goes to a bank and satisfies the local manager that he is deserving of credit to enable him to purchase cattle or seeds, etc., required for his farm. Then two neighboring farmers who know the applicant to be reliable sign a cash credit bond or guaranty and the bank supplies the money. It is rarely that a bank meets with a loss in making advances of this nature. It seems pertinent to add that the large English bank amalgamations have been disadvantageous to the small borrowers in the Provinces. The little country banks used to consider their clients' requirements, but now it is said, since the absorption of the latter, money collected in the country gravitates to London, where it is loaned out in large sums."

There is one English bank at least which

assists persons to purchase small agricultural holdings and advances money to make improvements thereon, and also for procuring stock, implements, seeds, etc. This bank undertakes to deal specially with each customer, taking into consideration both his moral and his financial standing. It lends money in the usual ways practiced by bankers, by overdraft, by straight notes, etc. In addition, it frequently lends money on instalment notes, charging 10 to 12 per cent., the interest being calculated in advance and added to the principal, so that in reality the bank receives a very high rate of interest. But it does not charge the usual bankers' commission in negotiating the loan.

There is another bank which makes a specialty of loaning to agriculturists, advancing up to two-thirds of the value of the land secured by first mortgage. This bank also advances on crops, livestock, etc., usually by means of overdraft, with a nominal charge in addition to the interest for carrying the account. The manager of this bank stated that it is the tendency of English banks to consolidate and centralize, thus withdrawing freedom of initiative from local managers. The result of the difficulties which surround small borrowers has given a considerable impetus to the co-operative movement in Great Britain.

### National Bank of Commerce Improvements.

The refinished and refitted interior of the National Bank of Commerce, Baltimore, presents one of the most attractive and conveniently arranged banking-rooms in the city. Coincident with the completion of the Garrett Building, adjoining, the National Bank of Commerce opened an arcade entrance to the bank from German street through the Garrett Building. While that improvement was being made the interior of the bank was fitted with new electric-lighting equipment, increased daylight by means of added large, clear wire-glazed fireproof windows, and the entire interior was redecorated. The ornamental ceilings of the banking-rooms, the marble finish of the walls, the rich, tasteful mahogany finish of the directors' room and offices, and the ornamental metal work at the entrance to the bank unite in giving attractive business surroundings for clients, customers and employees. In the past three years the bank has increased its business by over 50 per cent. Officers of the bank are Eugene Levering, president; Douglas M. Wylie, vice-president; Thomas Hildt, cashier, and Magruder Powell, assistant cashier.

## FINANCIAL NEWS

### Review of the Baltimore Market.

Office MANUFACTURERS RECORD, Baltimore, Md., September 17.

The Baltimore stock market remained dull during the past week, prices being about steady, with a disposition to advance upon any showing of demand. In the trading United Railways common sold from 26½ to 27; do. income bonds, 62¾ to 63; do. funding 5s 88; do. notes, 107½ to 108; do. 4s, 83¾ to 84; Consolidated Gas, Electric Light & Power common, 112½ to 113; do. preferred, 113 to 114½; Consolidated Gas 4½s, 92¾ to 93; Seaboard Air Line common, 18½; do. preferred, 41½ to 42½; do. 4s, stamped, 84¾; Mt. Vernon-Woodberry Cotton Duck 5s, 69; G. B. S. Brewing 4s, 43¾.

Bank stocks sold thus: Drovers and Mechanics', 222½; Merchants-Mechanics', 34 to 33¾; Citizens', 42½.

Union Trust sold from 63 to 60; United

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States Fidelity & Guaranty, 192 to 190; Mercantile Trust, 170.

Other securities were traded in thus: Houston Oil common, trust certificates, 17½ to 17; do. preferred do., 58 to 59; Consolidation Coal convertible 6s, 100 to 100½; Baltimore City 4s, 1954, 93½; do. do. 1955, 93½; do. do. 1958, 93½; Northern Central Railway stock, 115; Pennsylvania Water & Power common, 69; Alabama Consolidated Coal & Iron 5s, 71 to 73; Anacostia & Potomac 5s, 98½; do. guaranteed, 100¼; Baltimore Electric 5s, stamped, 98½; Norfolk Railway & Light 5s, 98; Fairmont & Clarksburg Traction 5s, 100 to 99½; Georgia, Carolina & Northern 5s, 102 to 102½; Pennsylvania Water & Power 5s, 91; Atlantic Coast Line convertible debenture 4s, 94½ to 94¼; Baltimore Electric preferred, 43½; Maryland Electric 5s, 98¼ to 98½; Charleston Consolidated Electric 5s, 90¾; Chicago Railways 5s, 97½ to 98; Erie Equipment 5s, 1922, 97; State of Maryland 4s, 1927, 99; Alabama Company common, 7½ to 7¼; Georgia Southern & Florida 5s, 102; Charleston & Western Carolina 5s, 101; Atlantic Coast Line of Connecticut 5-20s, 90; Arundel Sand & Gravel 6s, 98½; Washington, Baltimore & Annapolis 5s, 85; Consolidation Coal, 97½; Atlantic Coast Line of Connecticut, 245; Georgia Pacific 1sts, 107½; Coal & Iron Railway 5s, 99.

## SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended September 17, 1913.

Railroad Stocks.	Par.	Bid.	Asked.
At. Coast of Conn.	100	242½	245
Ga. South. & Fla. 2d Pfd.	100	81½	82
Maryland & Penna.	100	26	29
Seaboard Air Line Com.	100	18½	19
Seaboard Air Line Pfd.	100	45½	46½
United Rys. & Elec. Co.	50	267½	271
Virginia Ry. & P. Co.	100	52½	53½
<b>Bank Stocks.</b>			
Bank of Baltimore	100	179½	180½
Bank of Commerce	15	31	32
Citizens	100	42	43
Producers & Mechanics	100	22½	240
Farmers & Merchants	40	46	48
First National	100	116	118
Merchants-Mechanics	10	33½	34
National City	100	97½	98
Union	100	135	136
<b>Trust, Fidelity and Casualty Stocks.</b>			
Baltimore Trust	100	162½	163
Continental Trust	100	200	201
Fidelity & Deposit	50	157½	160
Fidelity Trust	100	242	245
Maryland Trust Pfd.	100	120	121
More, Trust & Dep.	50	163	174
Munsey Trust	100	100	101
Union Trust	50	60	63
U. S. Fidelity & Guaranty Co.	100	191	192
<b>Miscellaneous Stocks.</b>			
Baltimore Brick Pfd.	100	20	21
Con. Gas, Elec. Lt. & P. Com.	100	111½	112
Con. Gas, Elec. Lt. & P. Pfd.	100	114½	115
Consolidation Coal	100	96½	98½
G. B. S. Brewing Co.	100	2½	3

## Railroad Bonds.

Alabama Midland 5s.	103	104
At. Coast Conv. Deben. 4s.	94	94½
At. Coast Conv. 4s, Cfs., 5-20s.	90	92½
At. Coast Conv. 5s.	100½	103½
Carolina Central 4s.	81	82
Florida Cent. & Penin. 5s.	100½	101½
Coal & Coke Railway 5s.	93	94
Coal & Iron Railway 5s.	98½	99½
Florida Southern 4s.	98	99
Georgia & Alabama 5s.	102½	104
Georgia & Florida 5s.	60	60
Ga., Car. & North. 1st 5s.	102½	103½
Georgia Pacific 1st 6s.	106½	107½
Ga. South. & Fla. 1st 5s.	102	102½
Maryland & Penna. Inc.	55	60
New Orleans Gt. Nor. 5s.	62½	66
New Orleans, M. & C. 5s.	26½	52
Potomac Valley 1st 5s.	100½	101
Sav., Fla. & West. 5s.	102½	103
Seaboard 4s, Stamped.	84	85
Seaboard & Roanoke 5s.	102	103
South Bound 5s.	103½	104
Western N. C. Con. 6s.	100½	100½
Wash., Balto. & Annap. 5s.	84	85

## Street Railway Bonds.

Anacostia & Potomac 5s.	97½	98½
Atlanta Con. Street Railway 5s.	100½	102½
Balto., Sp. Pt. & C. 4½s.	95½	96
Baltimore Traction 1st 5s.	103½	104
Charleston City Railway 5s.	100½	102
Charleston Con. Elec. 5s.	101½	102
City & Suburban 5s (Balto.).	100	101
City & Suburban 5s (Wash.).	93½	94½
Danville Traction 5s.	99	99½
Fairmont & Clarksburg Trac. 5s.	100½	101½
Knoxville Traction 5s.	90½	91
Monongahela Valley Trac. 5s.	94½	96
Macon Railway & Light 5s.	98	98½
Maryland Electric Railways 5s.	97	98
Newport News & Old Point 5s.	97	98
Norfolk & Portsmouth Trac. 5s.	97	98
Norfolk Railway & Light 5s.	97	98
Norfolk & Atlantic Trac. 5s.	97	98
Portland Railway 5s.	99	100
United Railways 1st 4s.	83	83½
United Railways Income 4s.	63	63½
United Railways Funding 5s.	86	86
United Railways Notes 5s.	108	108½
Virginia Railway & P. 5s.	92	92½

## Miscellaneous Bonds.

Ala. Con. Coal & Iron 5s.	72½	73½
Baltimore Electric 5s, Stp.	98½	99½
Consolidated Gas 5s.	103½	104½
Consolidated Gas 4½s.	92½	93½
Con. Gas, Elec. Lt. & P. 4½s.	87	87½
Consolidation Coal 6s.	100	100½
Consolidation Coal Refd. 5s.	87½	88½
Elkhorn Fuel 5s.	93½	94½
G. B. S. Brewing 1st 4s.	43	43½
G. B. S. Brewing Income 5s.	7½	9
J. Spencer Turner 6s.	83	84
Jamison Coal & Coke 5s.	93½	94½
Mt. Vernon-Woodly's Cot. Duck 5s.	69	69
Penna. Water & Power 5s.	90½	91½
Southern Bell Telephone 5s.	99	99½
St. Joseph Ry., L. H. & P. 5s.	97½	98½
United Elec. Lt. & P. 4½s.	90	90½

## Information About Investments.

Two interesting reports, one dealing with the question of the taxation of securities, the other treating of the public utility and railroad commission laws of the various States, have been distributed by Secretary Frederick R. Fenton of the Investment Bankers' Association of America.

These reports are issued as part of the bulletin service of the investment banking body, and represent careful surveys of the subjects considered. Bulletin No. 5 of volume 1 is devoted to the taxation of securities under the heading, "A Report on the Constitutionality of Exempting Securities from Taxation, or Taxing Them at a Lower Rate Than Tangible Property in Various States." In this, the tax provisions for securities in all the States are considered. The report is the work of W. H. Lyon of New York, assistant counsel of the association, in co-operation with Allen G. Hoyt of New York and Frank W. Rollins of Boston, chairmen, respectively, of the committees on legislation and taxation.

Bulletin No. 1 of volume 2 treats with States having laws creating service or railroad commissions. This report is the product of George W. Kendrick, III, of Philadelphia, for the committee on public service corporations, of which he is chairman. It covers briefly the salient provisions of the public service laws in each State with respect to the interests of the investment dealer.

These bulletins cover many phases of investment information.

## Appalachian Power Co. Notes.

The Appalachian Power Co. has authorized an issue of \$3,000,000 of 7 per cent. five-year notes dated September 1, 1913, of which \$2,500,000 par value have been underwritten by Wm. P. Bonbright & Co. and Jackson & Curtis, both of New York. The notes are secured by the first mortgage bonds in the company's treasury and by the entire issue of second mortgage bonds authorized September 10. With the proceeds the floating debt and an outstanding issue of 6 per cent. two-year notes will be retired, all construction work in progress will be completed and funds will be provided to make contemplated additions to the plant during the next three years, all work being under the direction of the company's engineers. The company has two hydro-electric plants on New River in West Virginia developing 29,000 horse-power, 237 miles of high-tension transmission system, etc., and it also plans three other developments to generate 53,000 horse-power.

## FINANCIAL CORPORATIONS.

Ala., Boaz.—Chartered: First National Bank of Boaz; capital \$30,000. W. H. Bartlett is Pres.; B. M. Looney, Cashr. (Previously mentioned.)

Ala., Gadsden.—Prudential Building and Loan Association, capital \$4000, has filed incorporation papers; stockholders, J. F. Jones, O. S. Jones and Vista Jones.

Ark., Malvern.—Merchants and Farmers' Bank, previously mentioned, is chartered and will begin business about Dec. 1; capital \$30,000. T. N. Atchison and others interested.

Ala., Marion Junction.—Marion Junction State Bank, a new concern, is chartered; capital \$25,000. James M. Donald is Pres.

C. L. Gilmer V.-P., H. Hopper Cashr. Directors are the first two officers and M. F. Smith, Jas. Alexander, A. B. Moore, H. C. Armstrong and J. A. Carson.

Ala., Montgomery.—Atlas Life Insurance Co. of Montgomery, capital stock \$1,000,000, is reported organized and has purchased and taken over the industrial business of the Atlas Insurance Co.; B. P. Crum, Pres.; G. Montagu Nettlehip, V.-P. and Gen. Mgr.; S. J. Cassels, 2d V.-P.; S. Gasseneimer, 3d V.-P.; H. L. Gaddis, Treas.; A. H. Montgomery, medical director; W. F. Black, Secy.; George A. Huggins, actuary. Others named as directors are L. B. Whitfield, Geo. H. Haardt, W. M. Blount, E. M. Lovelace, W. L. Casey, J. M. Burt, J. B. Bell, C. G. Abercrombie and Hartwell Douglass.

Ark., Hunter.—Bank of Hunter, capital \$10,000, is inceptd.; H. O. Penrose, Pres.; Chas. R. Bruerman, V.-P.; W. O. Ferrier, Cashr.

Ark., Ratcliff.—A new bank is reported opened at Ratcliff with W. A. Ronk, Pres.; W. D. Stroud, Cashr.

Fla., Jennings.—The Commercial Bank, a new concern, is chartered; capital \$15,000; began business Sept. 10; Jno. F. Smith is Pres.; H. F. McCall and A. L. Rowe vice-presidents, R. A. Lawson Cashr. Directors are the first three officers and L. C. Register, J. F. Bates, A. H. Havencaste and S. S. Smith.

Fla., Ocala.—The Metropolitan Savings Bank, capital \$25,000, is reported organized with George Gides, Pres.; J. L. Wiley, V.-P.; Frank P. Godson, Cashr.

Ga., Atlanta.—Reported that a new trust company is being organized with \$1,000,000 capital. Board of Trade may give information.

Ga., Cadwell.—Citizens' Bank of Cadwell, capital \$25,000, is reported organized and will ask for charter. C. R. Williams of Dublin, Pres.; A. McCook and F. W. Lavander, V.-Pres.

Ky., Jackson.—The Hargis Commercial Bank & Trust Co., previously mentioned, inceptd.; capital paid up, \$75,000. The new bank took over the business of Brethitt County Bank and Hargis Commercial Bank. A. H. Hargis, Pres.; J. C. Hurst and F. P. Crawford, V.-Pres.; John T. Hindman, Cash.; Wm. W. Peavyhouse, Asst. Cash.

La., New Orleans.—Delta Life Insurance Co., a new concern, is incorporated; capital \$10,000; surplus \$1000. Will begin business immediately. E. J. Mothe is Pres.; E. M. Stafford, V.-P.; W. S. Lampton, Secy.-Treas.

Md., Port Deposit.—Plans to consolidate the National Bank of Port Deposit and the Cecil National Bank about Oct. 20 are announced, the former having obtained control of the latter. Capital, it is reported, will be \$50,000; surplus, \$50,000. Directors: Samuel C. Rowland, Pres.; W. W. Hopkins, V.-P.; J. T. C. Hopkins, Jr., Cashr.; Edward V. Stockham, R. P. McClenahan, James Gardner, E. H. Rowland, W. H. Cole, Jr., J. H. Kimble, R. K. Rawlings and Morris Acker.

Miss., Brooksville.—Cotton Exchange Bank, capital \$25,000, is chartered and begins business immediately. Incorporators: C. L. Allen, T. H. Adams and others.

Miss., Indianola.—Mississippi Abstract & Loan Co., capital \$10,000, is chartered. Incorporators: W. M. Garrard and P. M. Quinn.

Miss., Tutwiler.—Delta Bldg. and Loan Assn. of Tutwiler, capital \$200,000, is chartered. Incorporators: W. H. Harrison, T. M. Johnson, W. P. Knight and others.

Mo., Clayton.—The Gravois Bank of St. Louis County, to be located at Gravois and Selbert Sts., has filed articles of incorporation; capital \$25,000; stockholders, J. George Aff. Fred W. Clemens, Frederick B. Breschert, Adolph Etting, John C. Steffen, Louis H. Tiemann, Frank Weber and Frank J. Wiget.

Mo., Springfield.—The Merchants' National Bank, the State Savings Bank and the Holland Banking Co. are reported merged, retaining the name of the latter. William B. Sanford to be Pres., J. L. Hine, Cash.

N. C., Spencer.—Spencer Building and Loan Association is reported chartered, with \$50,000 in \$100 shares subscribed; P. M. Nussman, Pres.; F. A. McDonald, V.-P.; J. K. Dorsett, Secy. and Treas.; Stable Linn and T. F. Hudson, Attys.

S. C., Aynor.—Farmers' State Bank of Aynor is chartered; capital \$20,000; W. P. Hardwicke, Pres.; S. J. Lewis, V.-P.; A. J. Baker, Secy. and Treas.

S. C., Charleston.—Ocean Building & Loan Assn. commissioned; capital \$150,000; petitioners, R. G. Rhett, T. T. Hyde and George H. Moffatt.

S. C., Columbia.—Columbia Guaranty Title & Trust Co., capital \$25,000, is chartered; W.

W. Arthur, Pres.; B. F. Taylor, V.-P.; W. A. Clarkson, Secy. and Treas.

S. C., Columbia.—Interstate Realty & Insurance Co., capital \$20,000, is reported being organized and inceptd. by J. E. McDavid, formerly of Abbeville, and R. M. Jones, 23 Arcade Bldg., Columbia. Offices will be in the Palmetto National Bank Bldg. Mr. David to be manager.

S. C., Kingstree.—The Bank of Williamsburg at Kingstree, says a report, will be converted to a national bank, increasing capital stock from \$40,000 to either \$80,000 or \$100,000. C. W. Stoll is Pres.; E. C. Epps, Cashr.

Tenn., Ripley.—First National Bank of Ripley reported organized; capital \$35,000; V. P. Moriarity, Pres.; H. D. Folts, V.-P.; R. M. Pritchard, Cashr.; Aubrey Tucker and W. R. Miller, Asst. Cashrs.; Dr. I. A. Porter, C. C. Porter, W. D. Majors, I. E. Purson and W. M. Tucker, directors.

Tex., Carrizo Springs.—Guaranty State Bank of Carrizo Springs, capital \$10,000, is chartered. A guaranty fund bank. A. Earley is Pres. (Previously mentioned.)

Tex., Decatur.—First State Bank of Decatur, capital \$50,000, is reported authorized. It is a guaranty bank.

Tex., Ennis.—Reported that the Bristol State Bank will begin business within a week.

Tex., Orange.—Orange State Bank, capital \$25,000, has begun business in the Stark Bldg. on Front St. A. M. H. Stark is Pres.; J. A. Snoddy V.-P.; W. W. Armstrong Cashr.

Tex., Kennard.—Farmers' Guaranty Bank of Kennard authorized to begin business; capital \$10,000. W. R. McMullen is Pres.; Chaibe Latimer, Cash.

Tex., McKinney.—Chartered: Fox Investment Co., capital \$10,000, inceptd.; C. W. Fox, Edgar McKinney and H. A. Abernathy.

Tex., Walburg.—Chartered: Walburg State Bank, previously noted, capital \$15,000; Henry Deering, Sr., Pres.; Gus Deering, V.-P.; A. W. Speckels, Cashr. Business began Sept. 9.

Tex., Wimbrow.—Edward Skeen, W. H. Holley and others are reported organizing a new bank.

Va., Richmond.—Chartered: American Securities & Realty Corp.; capital \$5000 to \$250,000. L. B. Glendon, Pres.; New York; W. D. Hill, South Boston; R. C. Duval, Jr., Secy. and Treas., Richmond.

Va., Oakvale.—Reported that a new State bank will soon be organized and begin business in Oakvale. The Mayor may give information.

## NEW SECURITIES.

Ala., Birmingham.—The Auditorium bonds to be voted on Sept. 15 amount to \$250,000. Address Finance Commrs. (Previously noted.)

Ala., Demopolis.—\$20,000 of 6 per cent. 10-year school-building bonds are reported sold at par to the National Bank of Selma, Ala.

Ala., Demopolis.—Bids received Aug. 30 for \$20,000 10-year school-building bonds were rejected; denomination \$1000; dated Aug. 25, 1912; maturity Aug. 25, 1923; Jesse B. Hearn, Mayor.

Ala., Hamilton.—The \$100,000 of 30-year Marion county road construction bonds to be voted on Nov. 1 are 5 per cents. Address County Commrs.

Ala., Roanoke.—Bids will be received until 2 P. M. Nov. 10 by the Mayor and Council for \$30,000 of 5 per cent. 30-year water and electric-light bonds; denomination \$1000; interest Jan. and July. W. Y. Chewning is Mayor and J. T. Coleman Clerk.

Ark., Argenta.—Bids will be opened at the City Hall 7 P. M. Oct. 6 for \$82,000 of 1-10-year aerial street-improvement bonds of Dist. 15 and \$74,000 of Dist. 16 on the bases of 5, 5½ and 6 per cent. Justin Matthews, Little Rock, Ark., is Secy. Further particulars will be found in advertising columns.

Ark., Jonesboro.—Bids received for \$30,000 6 per cent. 10-year bonds Paying Dist. No. 10 rejected. Bonds will be readvertised. Address District Commrs.

Ark., Pine Bluff.—The W. R. Compton Co. of St. Louis is reported awarded \$150,000 of 6 per cent. Road Improvement Dist. No. 4 bonds, Jefferson county, at 95.25.

Ark., Pine Bluff.—W. R. Compton Co., St. Louis, purchased \$150,000 6 per cent. bonds of Road Dist. No. 4, Jefferson county. Address County Commrs.

Fla., Auburndale.—\$15,000 of school bonds were recently voted. Address School Board.

Fla., Auburndale.—Reported that \$20,000 of

[For Additional Financial News, See Pages 78 and 79.]



**Merchants-Mechanics National Bank**

South and Water Sts. BALTIMORE MD  
**DOUGLAS H. THOMAS** President.  
**JNO. B. RAMSAY** V.-P. and Chm. Bd. of Dir.  
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**JOHN B. H. DUNN** Cashier.  
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 Accounts of Banks, Bankers, Corporations and Individuals solicited.  
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**WM. G. TAYLOR**, Vice-Pres. and Treasurer.  
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**W. W. PUSEY 2d**, Title and Real Estate Officer.

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road bonds will be issued. E. S. Anderson is Mayor.

Fla., Bartow.—\$50,000 of 5 per cent. 20-year bonds of Polk county special school tax, District No. 1, are reported being offered for sale. Address School Board.

Fla., Clearwater.—Bids will be asked for October 1. It is reported, for the \$60,000 of school-building bonds authorized some time ago. Address County School Board.

Fla., Fernandina.—Bids will be received until and including Oct. 14 by the County Comms. for \$180,000 of 5 per cent. 30-year Nassau county road bonds. Edwin R. Williams is clerk to the board.

Fla., Fort Lauderdale.—Bonds have been voted to liquidate the floating debt and to build a city hall. The waterworks and sewer bonds were defeated by lack of a two-thirds majority. Address The Mayor.

Fla., Fort Myers.—Fort Myers sub-school district is reported to have voted \$35,000 of school-building bonds. Address School Board.

Fla., Fort Myers.—Lee county defeated the proposed issue of \$200,000 of road bonds by a majority of 10 votes. A preliminary report indicated that they had been approved. H. A. Hendry is clerk.

Fla., Hastings.—Town of Hastings has voted and is offering for sale \$10,000 of 5 per cent. bonds. Address G. W. Waller.

Fla., Labelle.—Reported voted: \$10,000 of school-building bonds. Address School Board.

Fla., Miami.—The City Council has decided to issue \$40,000 of revenue bonds, which will be disposed of at private sale. Address The Mayor.

Fla., Ocala.—\$45,000 of 5 per cent. 20-year water-works bonds are reported sold to local banks at par. W. W. Clyatt is City Treas.

Fla., Pensacola.—Escambia County Comms. propose to issue \$1,500,000 of road bonds, for which an election will be held.

Fla., South Jacksonville.—Bids are to be received until 3 P. M. Oct. 10. It is reported, for \$65,000 of 5 per cent. 30-year improvement bonds; denomination \$1000. C. G. Belote is Secy. Board of Bond Trustees and H. Botts is Chmn.

Fla., Taft.—Oct. 3 Special Tax School Dist. No. 34, Orange county, known as Taft Dist., will vote on \$4000 6 per cent. bonds. Address County Board of Public Instruction, Orlando.

Fla., Tarpon Springs.—Election will be held Oct. 14 for \$80,000 of city bonds thus: \$25,000 paving, \$15,000 city hall, jail and fire, \$15,000 sewer and water and \$5000 park. Address The Mayor.

Fla., Wauchula.—\$25,000 of school-building bonds will be voted upon on Sept. 18. It is reported. Address School Board.

Fla., Wauchula.—A report says it is contemplated to issue \$50,000 of water and sewer bonds. Address The Mayor.

Ga., Arlington.—An election on sewer bonds will, it is reported, soon be held. Address The Mayor.

Ga., Augusta.—An ordinance is adopted and signed to issue \$200,000 of 5 per cent. bonds, denomination \$1000, dated Nov. 1, 1913, to refund an equal amount of 6 per cent. bonds maturing on that date. Address L. C. Hayne, Mayor.

Ga., Cartersville.—Reported that owing to a technicality another election will have to be held Sept. 27 on the \$100,000 of 5 per cent. city improvement bonds which were voted Aug. 16. G. W. Young is Mayor.

Ga., Norwood.—Election reported set for Sept. 30 on \$2500 of 6 per cent. 2-6-year serial school bonds; denomination \$500. Address School Board.

Ky., Louisville.—A vote on \$1,000,000 of Louisville school bonds is to be taken at the November election. Address The Mayor.

Ky., Louisville.—Fred J. Drexler and others are reported working to secure the voters' approval at the coming election for \$1,000,000 of Louisville school-improvement bonds. The Commercial Club may give information.

Ky., Marion.—At the November election a vote will be taken on \$25,000 of water-works and \$20,000 of sewer bonds. Address The Mayor.

La., Baton Rouge.—Voted: \$15,000 bonds First Good Roads Dist., East Baton Rouge parish. Address Parish Clerk.

La., Gretna.—Bids will be received until October 1 for \$200,000 of road bonds (\$100,000

of Road District No. 1 and \$100,000 of Road District No. 2), parish of Jefferson, 5 per cents., denomination \$500 and \$1000 (200 of the former and 100 of the latter), by William Hepting, Gretna, La., or C. A. Buchler, Atty., 902 Canal-La. Bldg., New Orleans. Bonds mature from 1918 to 1953, serially; dated Sept. 1, 1913.

La., Hammond.—T. R. Thomas, Commr. of Finance, is quoted saying it is contemplated to issue \$50,000 of school-building bonds.

La., Homer.—Elections will be held in 7 wards of Claiborne parish Oct. 14 on question of voting tax for building roads. J. E. Gandy, Prest. Police Jury.

La., New Iberia.—An election will soon be held, according to a report, to vote on \$230,000 of improvement bonds. Address The Mayor.

La., Shreveport.—The Caddo Police Jury at Shreveport is reported considering a proposition that it issue \$10,000 of road bonds. W. T. Crawford is Prest.

La., Welsh.—Voted: \$15,000 of electric-light bonds, which will be sold immediately. Address The Mayor.

Md., Baltimore.—An additional sewerage loan bill for Baltimore may be asked of the Legislature this winter to the amount of \$2,500,000. J. H. Preston is Mayor.

Md., Cumberland.—Bids will be received by the Allegany County Comms. until 10 A. M. Sept. 30 for \$10,000 of 5 per cent. 1½-year road-improvement bonds; denomination \$500. Angus Ireland is Clerk. Further particulars will be found in the advertising columns.

Miss., Ashland.—Election to be held to vote on \$7000 of Third district road bonds. Address Town Clerk.

Miss., Batesville.—The \$18,000 of 6 per cent. 20-year water-works bonds are reported offered for sale. J. B. Carothers may be addressed.

Miss., Canton.—Oct 6 Madison county will sell \$50,000 road bonds. Address Board of Supvs.

Miss., Hazlehurst.—Reported sold: \$75,000 of 6 per cent. 25-year Road Dist. No. 2 bonds, Copiah county.

Miss., Magnolia.—Bids received Sept. 1 for \$200,000 road bonds of Fourth Supvs.' Dist., Pike county, rejected. New bids are being asked. Chas. E. Brumfield, Clerk.

Miss., Mississippi City.—A report says that a bill will be passed at the January session of the Legislature to organize the Mississippi school district authorized last January to issue \$10,000 of bonds, a Supreme

Court decision having, it is stated, declared the previous organization law unconstitutional. Address School Board.

Miss., Ocean Springs.—The Ocean Springs State Bank is reported to have been awarded \$2000 of 6 per cent. 10-year school-building bonds.

Miss., Pascagoula.—Bids will be opened Nov. 3 for \$15,000 of 6 per cent. 50 year road-building bonds of Jackson county; dated Nov. 1; denomination \$500. Fred. Taylor is clerk at Pascagoula.

Miss., West Point.—Bids will be received by the Board of Supervisors of Clay county until 2 P. M. October 7 for \$20,000 of District No. 2 road bonds, \$5000 Siloam school bonds and \$1500 Una school bonds; all 6 per cents. L. J. Howard is clerk. Further particulars will be found in the advertising columns.

Mo., Charleston.—Reported voted: \$8500 water-works and sewer bonds. Address The Mayor.

Mo., Chillicothe.—The \$20,000 of high-school and library building, \$800 Vine St. school property improvement and \$1500 Elm St. school property improvement 4½ per cent. bonds are reported defeated.

Mo., Dexter.—The City Clerk is quoted saying that \$53,000 of water and sewer bonds lately voted will not be sold for some time.

Mo., Kansas City.—Bids will be received until 2 P. M. Monday, Sept. 22, by T. C. Harrington, Secy. Board of Park Comms., for \$330,359.78 of 6 per cent. park fund certificates, Series A-4; denomination \$1000.

Mo., Kansas City.—Reported that bids were received until 2 P. M. Sept. 15 by T. C. Harrington, Secy. Park Comms., for \$77,240.47 of 6 per cent. park fund certificates, Series A-3.

N. C., Casar.—Zero Mull says that the Legislature will be asked for a bill to authorize a vote at Casar on railroad aid bonds.

N. C., Greensboro.—Bids received until 10 A. M. Oct. 7 for \$10,000 5 per cent. bonds of Morehead township special school tax district, Guilford county; denomination \$1000. W. C. Boren is chairman Board of County Comms.

N. C., Marion.—It is understood that three issues of 5½ per cent. township bonds are being offered for sale; total \$80,000. Address County Clerk.

N. C., Marshall.—Bids received until noon Sept. 17 by W. C. Sprinkle, Chmn. Board of Comms., Madison county, for \$50,000 5 per cent. 30-year road-improvement bonds.

N. C., Meadows.—W. R. Petree, Secy., Germantown, Route 1, advises that there was no sale made of \$40,000 of 5 per cent. 30-year road bonds of Meadows township, for which bids were received Sept. 16.

N. C., Mocksville.—It is understood that \$105,000 of Davie county 5 per cent. road-improvement bonds are being offered for sale. Address County Comms.

N. C., Newton.—Bids received by E. S. Little, Chmn. Board of County Comms., Catawba county, until 1 P. M. Oct. 6 for \$25,000 of 6 per cent. road bonds, Hickory township; bonds voted April 15, 1912; dated June 1, 1912; maturity June 1, 1932.

N. C., Raleigh.—The State of North Carolina is reported to have sold \$697,000 of 4 per cent. 40-year deficiency and building bonds out of the total of \$1,142,500. B. R. Lacy is State Treas.

N. C., Raleigh.—Bids will be received until noon Oct. 6 by the Comms. of Wake county, Raleigh, for \$75,000 of 5 per cent. 30-year bonds; dated Oct. 1, 1913; denomination \$1000. John A. Mills is Chmn. of the Board. Further particulars will be found in the advertising columns.

N. C., Roseboro.—\$10,000 of 5 per cent. school-building bonds are reported being offered for sale. Address School Board.

N. C., Statesville.—Board of Aldermen will petition Legislature for election to vote on school bonds; F. A. Sherrill, Chmn.

N. C., Washington.—\$150,000 of 5 per cent. 50-year municipal improvement bonds are reported being offered for sale. Address City Clerk.

N. C., Wilmington.—The city is reported to have sold \$100,000 of 6 per cent. 5-year coupon notes in denominations to suit purchaser; interest paid semi-annually.

Okla., Marietta.—\$25,000 of water-works and sewer bonds are reported voted at the late election. Address The Mayor.

Okla., Muskogee.—\$10,000 of city bonds are reported sold. Address The Mayor.

Okla., Tulsa.—\$16,000 of 6 per cent. 10-25-year road-improvement bonds are reported unsold. Address County Clerk.

S. C., Laurens.—\$7200 of 6 per cent. 20-year school bonds are reported being offered for sale. Address County Supt.

S. C., Orangeburg.—\$60,000 of 4½ per cent. 20-40-year water-works and electric-light plant construction bonds are reported being offered for sale. Address The Mayor.

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ALABAMA



Tenn., Benton.—\$250,000 of 5 30-year Polk county turnpike bonds are reported being offered for sale. Address County Clerk.

Tenn., Chattanooga.—The Legislature has passed a bill authorizing a bond issue of \$500,000 to construct a bridge across the river at Market St. Address The Mayor.

Tenn., Columbia.—\$100,000 of 5 per cent. 20-year water-works purchase bonds have been voted. J. M. Dedham is Mayor.

Tenn., Crossville.—Bids will be received until noon October 13 by the Pike Comms. of Cumberland county for \$60,000 of 5 per cent. 10-20-year road bonds. J. E. Burnett is chairman. *Further particulars will be found in the advertising columns.*

Tenn., Chattanooga.—Bill is prepared for introduction in Legislature for not over \$1,500,000 of 5 per cent. 20-year bonds for Chattanooga-Knoxville highway, election to be held in Jan. in eight counties traversed. T. R. Preston, Chattanooga, may give information.

Tenn., Dickson.—\$6000 of water bonds are reported voted at the recent election. Address The Mayor.

Tenn., Memphis.—Bids will be opened about Oct. 15, it is reported, by E. M. Douglas, City Clk., for \$315,000 of 6 per cent. street-improvement bonds; denomination \$1000.

Tenn., Rockwood.—City is reported offering \$40,000 of 5 per cent. 20-year school bonds. J. D. Tanner is Secy.

Tex., Alice.—An election will be held Oct. 25 on \$125,000 of 5 1/2 per cent. 10-40 road and bridge bonds of Jim Wells county; denomination \$1000. W. R. Perkins is County Judge in charge.

Tex., Anahuac.—A local report says it is proposed to issue \$12,500 bonds of Drainage Dist. No. 2 of Chambers county. Address Drainage Comms.

Tex., Bay City.—It is contemplated to organize the Fifth Road Dist. of Matagorda County and to issue \$60,000 of road bonds. Address County Clerk.

Tex., Beaumont.—An election on \$135,000 of hospital bonds will, it is reported, soon be held.

Tex., Beaumont.—October 15 Jefferson county will vote on \$500,000 of road-improvement bonds. Address County Commissioners.

Tex., Beaumont.—The City Council is expected to soon order an election for \$500,000 of water-works bonds. Address The Mayor.

Tex., Belton.—An issue of \$1990 of Bell county bridge-improvement bonds is reported registered. Address County Comms.

Tex., Boston.—It is understood that it is not yet decided to call an election on \$500,000 of road bonds for Bowie county. Address County Comms.

Tex., Dallas.—A report says that as a result of a verdict in a Dallas court, it is decided that the election last April for \$400,000 of municipal light plant bonds resulted in a defeat for the issue instead of its approval, as was previously announced.

Tex., Eagle Pass.—The taxpayers of Maverick county are reported to have voted to issue \$25,000 of highway construction and improvement bonds. Address County Clerk.

Tex., Hallettsville.—A report denies that there will be an election in this (Lavaca) county on \$25,000 of road bonds.

Tex., Holland.—\$20,000 of school-building bonds are reported voted. Address Board of School Trustees.

Tex., Kingsville.—On Sept. 27, it is reported, an election will be held in Kingsville and Nueces county on \$34,000 of 40-year road and bridge improvement and sewer-construction bonds. Address County Comms.

Tex., Laredo.—Mayor Robert McComb says that Laredo has no new bond issue. This denies a recent report that refunding bonds might be issued.

Tex., Laredo.—\$31,000 of refunding bonds were voted by a large majority at a recent election to take up 31 outstanding bonds of the year 1883. The Attorney-General, whose approval is required before the bonds can be issued, is reported as deciding that the original bond issue was illegal and that he will approve only \$14,900 of the outstanding bonds. A. V. Woodman is City Secretary.

Tex., Leeming.—It is contemplated to issue, says a report, \$6000 of 5 per cent. school-building bonds, and an election is to be held Oct. 4. Address Secy. Board of Education.

Tex., Linden.—The \$35,000 of 5 per cent. 20-40-year Cass county building bonds are reported to have been purchased at par by the Cass County Comms. Court; denomination \$875.

Tex., Mexia.—A vote is reported to have been taken on \$20,000 of sidewalk and street paving bonds. Address The Mayor.

Tex., Moscow.—Moscow Road Dist. No. 2 of Polk county has, it is reported, voted to issue \$40,000 of road-construction bonds. Address County Clerk, Livingston, Tex.

Tex., Paige.—\$5000 of Paige independent school district bonds are reported voted at the recent election. Address School Board.

Tex., Richardson.—\$16,000 5 per cent. 40-year bonds voted June 30 are for sale; denomination \$200. Sam P. Harben, Virgil Walton, S. H. Sharp, Comms.

Tex., Richardson.—Date not yet set for sale of \$16,000 of 5 per cent. 40-year Richardson Independent School Dist. building bonds, dated Aug. 1, 1913; denomination \$200. Sam P. Harben, Virgil Walton and S. H. Sharp are officials in charge.

Tex., Rosenberg.—An election is ordered for October 15 on \$31,000 of water-works bonds. A. W. Meyer is Mayor.

Tex., Runge.—Bids are to be received until Dec. 1 for \$20,000 of 5 per cent. water-works and electric-light bonds lately voted. J. F. Murray is City Clerk.

Tex., New Braunfels.—Voted: \$14,000 of additional school bonds. Address the School Comms.

Tex., Oakville.—Live Oak county will sell \$25,000 of 5 per cent. 40-year road bonds; denomination \$1000. F. H. Church, County Judge, is official in charge. T. H. Miller is County Atty.

Tex., San Antonio.—Bids will be received by Clinton G. Brown, Mayor, until 4 P. M. Oct. 2 for \$3,500,000 of 5 per cent. 40-year serial bonds for various purposes, thus: Street paving, \$1,500,000; opening and widening streets, \$375,000; concrete bridges, \$100,000; sidewalks on city property, \$25,000; sanitary sewers, \$800,000; storm sewers and drains, \$300,000; city hospital, \$125,000; police and fire stations, \$175,000; garbage incinerators, \$50,000. All are of \$1000 denomination, excepting the \$25,000 for sidewalks, which are \$500; interest Mch. and Sept. *Further particulars will be found in the advertising columns.*

Tex., Somerville.—Oct. 9 city will vote on \$10,000 water-works bonds. Address The Mayor.

Tex., Stephenville.—The voters of Millersville school district of this (Erath) county are reported to have asked for an election on school-building bonds. Address County Clerk.

Tex., Waxahachie.—Registered by the State Comptroller: \$10,000 of 5 per cent. 20-30-year street-improvement bonds and \$2500 of 5 per cent. 10-30-year building bonds. Address The Mayor.

Wa., Amherst.—Reported that an election will be held Sept. 23 on \$10,000 of water-works and electric-light bonds. Address The Mayor.

W. Va., Bluefield.—October 16 an election will be held on \$125,000 of 5 per cent. 20-year street, sewer and fire-apparatus bonds; denomination \$100. F. M. Peters is Mayor.

W. Va., Ceredo.—\$4500 of bridge bonds are reported voted at Ceredo. Address The Mayor.

W. Va., Fairmont.—\$400,000 of 5 per cent. 20-30-year Marion county road bonds are reported being offered for sale. Address County Clerk.

W. Va., Logan.—A. J. Hood & Co. of Detroit are reported awarded at \$60,007, less \$1189 for expenses, \$60,000 of 5 per cent. Logan county bridge bonds; dated Sept. 1, 1913.

W. Va., Point Pleasant.—Reported defeated: \$75,000 of Mason county courthouse construction bonds.

W. Va., Wheeling.—D. G. Brown, Clk. Bd. of Control, is reported saying no date is set to vote on the \$100,500 of street-improvement bonds, as they could not be issued in time for work to begin this fall.

#### FINANCIAL NOTES.

Union Trust Co., Atlanta, Ga., has increased capital from \$200,000 to \$1,000,000; George D. Pollock, Pres.

Col. Fred E. Farnsworth, general secretary, American Bankers' Assn., has announced the program for the annual convention which will be held in Boston, Oct. 6 to 9. On the first two days committee, executive council and section meetings will be held, and the convention will begin Oct. 8, ending the next day. Immediately after adjournment the new executive council will organize, Chas. P. Blinn, Jr., National Union Bank, Boston, has charge of hotel arrangements.

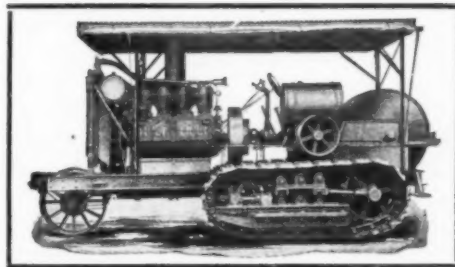
## Caterpillar Talk No. 1



Talk No. 2  
will appear  
Oct. 16 issue



HAULING CRUSHED STONE



THE CATERPILLAR TRACTOR



ROAD MAKING WITH THE CATERPILLAR

## WE STOOD THE TEST

Two months ago, Mr. Brisbane, Editor New York Evening Journal, published his own editorial under the heading "Has Anybody Yet Made a Motor to Do Farm Work?"

"What man has got a machine that will begin by rooting up trees, pulling out stumps?"

Then plow up the ground and cut loose the roots that remain?

Then harrow it;

Then cultivate the crop, whatever it be—fruit trees, corn or potatoes, between whiles supply power for a saw mill or threshing machine?

Let that man come forward."

The Caterpillar did come forward, and we made good in every particular—the Caterpillar did things that no other engine could do—we stood the test—and can convince you that *our* Tractor will work where no other Tractor can work. Right now ask for further information. Catalog sent on request.

Watch for our next advertisement in the October 16th issue. It will interest you.

**The Holt Manufacturing Co.**

DEPT. 30

PEORIA, ILLINOIS

# Classified Opportunities

## MEN WANTED

AGENTS to sell the newest electric appliance on the market; sold everywhere there is electricity. In the home and office; liberal profits; sales-driving sample, weighs a pound; no experience or knowledge of electricity required; it shows how to use one light instead of two and get the same results; sells for \$3.50 and saves the purchaser an investment of \$25. Write for particulars. The Handy Light Co., 930 Handy Light Block, Cincinnati, Ohio.

WANTED—A reliable man who is a good wood turner and machinist. Apply Lewis T. Kline, Alpena, Mich.

WANTED—As manager for well-paying wholesale hardware business, an experienced hardware man who can purchase from \$5000 to \$8000 stock in company. Address "D. R.," P. O. Box 844, Charleston, S. C.

WANTED—Man of experience and ability in building construction and engineering; must purchase not less than \$2500 of the stock of this company, which is now in successful operation. He will be made secretary and superintendent. Address Drawer 729, Hattiesburg, Mississippi.

AGENTS to sell the newest electric appliance on the market; sold everywhere there is electricity. In the home and office; liberal profits; sales-driving sample, weighs a pound; no experience or knowledge of electricity required; it shows how to use one light instead of two and get the same results; sells for \$3.50 and saves the purchaser an investment of \$25. Write for particulars. The Handy Light Co., 932 Handy Light Block, Cincinnati, Ohio.

WANTED—First-class real estate salesman. All proposition to right man. Conditions right for large business. A future to the man who proves his ability. Give full information with first inquiry. Address Box 585, Wilmington, N. C.

WANTED—To correspond with real estate firm of high standing who are familiar with handling colonization proposition of high class; no cheap land; easy-payment proposition, but a highly developed, legitimate, value-received proposition. To the right parties will give the exclusive sales contract, but they will be required to make proper showing as to their ability to finance themselves and show by "past performances" their ability as "result getters." T. J. A., Box 14, Rural Route 3, Richmond, Ky.

## AGENCIES WANTED

WE ARE PREPARED to sell your products and care for Kansas City stocks. Manufacturers are finding it necessary and very profitable to place stocks here, this being one of the best distributing points in this country. We have 14,000 square feet of fire-proof warehouse. If you are interested, let us hear from you. The Ostertag-Anderson Supply Co., 2112 Central St., Kansas City, Mo.

WANTED—Sales agency for all lines pertaining to builders' specialties; East Tennessee as territory; can furnish satisfactory references to interested concern; modern warehouse facilities. Address Daniel Briscoe, Jr., 325-327 State St., Knoxville, Tenn.

WANTED—An old-established firm, whose business permits of taking on side lines, desires to represent manufacturers in Baltimore and vicinity; first-class references. Address No. 1355, care Manufacturers Record.

SALES MANAGER.—District Sales Manager wanted by an established consulting engineering and construction corporation, based on co-operative plan, offices in Cleveland, Detroit, Buffalo and New York City. The position requires a man with engineering knowledge, one who can take full charge of the sales department. Highest references and \$1000 stock investment required. Contract with salary, commission and interest in business guaranteed. Address No. 1368, care Manufacturers Record.

SALESMAN with splendid trade wants medium-priced line of supplies for railroads, foundries and hardware trade for Southern territory on commission basis. Highest references. Address No. 1358, care Manufacturers Record.

WANTED—High class, wide-awake young business man would like to represent manufacturer in State of Texas as State agent; commission basis; capable of handling men; highest references in the South. Address No. 1320, care Manufacturers Record.

## SITUATIONS WANTED

POSITION WANTED as superintendent; have had 10 years' experience superintending and developing surface mining of coal and phosphate rock; had charge of one of the largest plants in Tenn.; am an expert on equipment to handle the above work. Address No. 1323, care Manufacturers Record.

WANTED—Position by man of about 15 years' experience in manufacturing show-cases and store fixtures; competent to design and construct woodworking machinery; equal experience as sales manager; will take some stock in safe investment; small family; good references as to ability, habits and character. Address No. 1372, care Manufacturers Record.

## RATES AND CONDITIONS

Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 25 lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 18c per line, 300 lines 16c per line; 500 lines or more, 15c per line.

EXPERIENCED TRAVELING SALES-MAN, with very large acquaintance in the Southern mill-supply trade, desires position with responsible manufacturer. Address E. C. Brooke, Box 71, Richmond, Va.

MECHANICAL ENGINEER of exceptional ability is open for position as superintendent, mechanical engineer or manager at reasonable salary; no objection to a small but progressive concern, and can furnish new specialties of merit. Address No. 1360, care Manufacturers Record.

MECHANICAL ENGINEER, familiar with distillation of coal tar and pitch, creosote oil, etc., and the refining of all coal tar products, wishes to secure work in this line. Any large producer of tar or creosoting company with tar supplies available, take notice. Address No. 1361, care Manufacturers Record.

WANTED—Position as assistant secretary of Chamber of Commerce or something leading up to it. Am a professional young man. Baxter Genoble, Paeolet, S. C.

A MAN with 20 years' experience as superintendent and manager of manufacturing plants wishes to connect with a good live plant; understands machinery and handling of men; references. Address No. 1253, care Manufacturers Record.

## MAIL ORDER SPECIALIST

HAVING YEARS OF EXPERIENCE in Mail Order Specialty line, marketing article of merit yielding over \$100,000; having knowledge of mail order advertising, follow-up correspondence, circular literature, handling of Selling Agents over United States, I desire to connect with parties wishing to market specialty or advertise generally; must be financially able and pay salary and commission. Address W. E. B., care Manufacturers Record.

## TYPEWRITER SUPPLIES

HIGHEST QUALITY TYPEWRITER SUPPLIES.—Exclusively oil carbon and mineral coloring matter used in manufacture of carbon paper, which enables us to guarantee absolutely clean work and permanent copies. Our ribbons are made of imported silk, giving much additional strength. They are guaranteed non-filling and long wearing. Address A. Sylvester Edmonds, care of American Ribbon & Carbon Co., 209 Shackelford Building, Athens, Ga. Please mention Manufacturers Record in writing.

## EDUCATIONAL

RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical, Electrical and Chemical Engineering and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), Chemical Engineer (Ch.E.), and Bachelor of Science (B.S.). Also special courses. Splendidly equipped new engineering laboratories. Send for catalogue to Registrar.

## CAPITAL WANTED

WANTED—Party to finance valuable gold placer mine in Lee Co., N. C., of 204 acres, paying \$5 per cubic yard; near railroad. Investigation invited. Chas. E. Lupton, 638 N. Gilmor St., Baltimore, Md.

CAPITAL WANTED for increasing the business capacity of a well-established and profitable jobbing business in Denver, Col.; will bear close investigation; 7% guaranteed. Answer F. M. H., 1757 Vine St., Denver, Col.

WANTED—Capital to manufacture reciprocating double-piston non-vibrating extra exhaust (una-flow) engine. One built develops 25% greater power with extra exhaust open than closed and exhausting in usual way. Address No. 1370, care Manufacturers Record.

CAPITAL WANTED in order to promote the three best and most profitable disposal systems (garbage, sewage and grease arrestation). Principal products, fertilizer, ammonia and grease. Civic economies; sanitary collection and disposal of garbage; absolute purification of sewage waters. These systems are infinitely superior to any other. Sewage system obviates expensive works. Address No. 1364, care Manufacturers Record.

A GOING CONCERN, owning its plant and doing a manufacturing, general machine shop, foundry and contract business, best location in South Atlantic States, fine prospects, plenty of work not easily affected by outside conditions, wants \$20,000 active working capital; terms to be arranged. Don't write unless genuinely interested and have the money. Address No. 1289, care Manufacturers Record.

## HOTEL WANTED

AN OPPORTUNITY.—We have one of the best openings in the Southwest for a good up-to-date hotel; have no hotel at this time; population 5000; two railroads; town will take \$5000 in stock; will guarantee 10 per cent. investment. Address Byron B. Bronson, Wilburton, Okla.

## BUSINESS OPPORTUNITIES

GENERAL AGENTS WANTED.—We desire Agents in every State to represent us in the sale of imported Incandescent Petroleum Gas Lamps, and prefer wholesale merchants handling hardware and crockery. Merchants with a well-established trade and ample capital with which to handle our line are requested to address The Comet Lamp Co., Seguin, Texas.

I KNOW of several iron and manganese mines in Eastern Cuba to which claims are not yet established. Would give 3% interest on the property to party willing to furnish funds for registration fees. References exchanged. Jose Rodriguez, Santiago, Cuba.

"SAFETY FIRST."—The fuse problems are solved; no more overfused, overheated wires; the fire hazard is reduced to a minimum; a cartridge or plug type fuse, designed for a given amperage, cannot be connected with a base designed for a lower amperage, the same class. The devices are patented in U. S., Canada, Great Britain and France. The patent rights are for sale, or may be manufactured on royalty basis. Address Louis Kovacs, 317 S. Peoria St., Chicago, Ill.

CONTRACTOR WANTED.—Experienced man to contract the clearing of 200 acres a month of cut-over hardwood land, gradually increasing to 400 acres per month; must be cleared ready for the plow; stumps up to 10 inches must be pulled; man must be able to give bond. The Gerard B. Lambert Co., Elaine, Ark.

FOR EXCHANGE—Forty acres of suburban land suitable for subdivision, 20 minutes' run from Philadelphia, for a large tract of mountain land suitable for sheep or cattle ranching. For full information address The Central Realty Co., Inc., 1005 Hull St., Richmond, Va.

A WOOD-PULLEY MANUFACTURER wishes to communicate with parties who have a plant and drykilm suitable for the manufacture of wood pulleys, with a view to locating in the South. Address No. 1371, care Manufacturers Record.

A SPLENDID BUSINESS OPPORTUNITY. Control of a successful wholesale hardware, mill and mine supply business in a locality where all conditions are favorable; can be had at a fair price. For information write 1352, care of Manufacturers Record.

YOUNG, ENERGETIC C. E., 27, married, wishes to connect with established engineer in growing town; at present holding good position, but desire to permanently locate where I can make a home. Address No. 1363, care Manufacturers Record.

TIMBER FOR SALE AND FARM FOR RENT.—About 5,000,000 feet standing timber, of which about 3,000,000 feet is pine and 2,000,000 hardwood. Good farm for rent with factory suitable for staves, excelsior or canneries. On the Mattaponi River and the proposed line of the Richmond & Urbanna R. R. J. W. Fleet, Biscoe, Va.

A GOLDEN OPPORTUNITY.—An established lumber and builders' supply business for sale in one of the fastest growing small cities of the South. Has earned 20% to 40% yearly for years, or from \$3000 to \$5000, besides all salaries. Does from \$75,000 to \$100,000 business per year. Manager and principal owner desires to contract. Will sell at inventory value. Address No. 1367, care Manufacturers Record.

BANKRUPT SALE.—Entire dry-cleaning equipment must be disposed of immediately. Apply J. W. Cheesborough, trustee, Asheville, N. C.

KAOLIN and china clay expert will develop properties, test material or manage plant; 20 years' experience with one firm. Address No. 1299, care Manufacturers Record.

SECOND-HAND transits and levels bought and sold. Expert repairing of surveying instruments. Lowest prices. W. F. Sprengnether Instrument Co., 203 North 10th St., St. Louis, Mo.

FOR SALE OR TO MANUFACTURE ON ROYALTY—Patent collapsible metal packing case for shipping merchandise; cases may be returned low freight rate; will eventually take the place of wooden box for heavy work. Correspondence solicited. C. J. Webster, Osceola, Neb.

50,000 SQUARE FEET—Low rental; steam heat; new building; cement floor; sprinkler insurance; 2-cent K. W. electric power; railroad siding; space too large, will divide to suit. Robert C. Look, Harford Ave. and B. & O. R. R., Baltimore, Md.

FOR SALE—Outright or half interest in a five-ton ice manufacturing plant now in operation, located in good territory in Florida. Address H. J. Smith, Tarpon Springs, Fla.

WANTED—To correspond with parties who have profitable manufacturing business and who need larger building and more capital and would consider moving to Virginia town about 4000 people. None but those having something worth while to offer and mean business need apply. Address Box 286, South Boston, Va.

## HAVANA CIGARS

CLEAR HAVANA CIGARS, the best cigars, at factory prices. Write today for particulars. A. Ramirez & Co., Manufacturers, 1616 17th St., or Dept. E, P. O. Box 998, Tampa, Fla.

## DIRT MOVING OR CONCRETE WORK WANTED

WANTED—Work in the South for the winter for 15 teams with full new equipment; will contract or subcontract dirt moving or concrete work. Address R. A. Parkinson, Kent, Ohio.

## OFFICE BUILDING FOR SALE

FOR SALE—Twelve-story modern office building, steel and concrete construction, located on a prominent corner in a growing Southern city of 150,000 population; yields an annual rental of \$54,000; will net 8% on the price asked. For further particulars address W. E. Hale, 412-413 First National Bank Bldg., Nashville, Tenn.

## WAREHOUSE FOR RENT

5-STORY warehouse, 337-39 North St., 30x80; 4-story warehouse, 332-34 North St., 40x50; 5-story warehouse, 226-28 Pleasant St., 27-50. All in excellent repair; equipped with electric elevators, fire shutters and offices; located in center of manufacturing district, on N. C. Ry. tracks. Apply Walter M. Faerber or J. Leroy Hopkins, 1231 Calvert Building, Baltimore, Md.

## R. R. TERMINAL AND FACTORY SITES

DESIRABLE MANUFACTURING SITE NEAR ATLANTA FOR SALE.—Large acreage, on Southern Ry. Also large tract in Birmingham suitable for railroad terminal or manufacturing. Coffield Investment Co., Atlanta, Ga.

## INDUSTRIES WANTED

BLUEFIELD, W. VA., located on the main line of the Norfolk & Western Railway midway between Columbus, Ohio, and Norfolk, Virginia, the gateway to the vast Pocahontas coal fields, and the distributing point for a half million people within a fifty-mile radius, wants new industries and offers inducements to legitimate manufacturers. Large silica limestone and brick-clay deposits within corporate limits. For illustrated booklet and specific information address C. T. Boykin, Secretary, Bluefield Chamber of Commerce.

## MISCELLANEOUS

ARE you seeking a factory site or a location for a wholesale or distributing house of any kind to reach the Southern and Southwestern markets? If so, Memphis is the place for you, because it is the geographical center and the gateway of the sections you wish to cover; because "Memphis makes the Rates," having 17 railroads and the Mississippi River, and because she has cheap and abundant raw materials, excellent labor conditions, and is unsurpassed as a residence city. Above all, she has 200,000 wide-awake citizens ready to welcome you and cooperate with you. Address John M. Tuther, Sec'y Business Men's Club, Memphis, Tenn.

SHREVEPORT, LA., WANTS FACTORIES.—Free sites on railroad; natural gas at low rate; one block from electric car line. Correspondence solicited. Shreveport Factory Movement, 520 First Nat'l Bank Bldg.



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